Database Working Group

Cathy Murphy

ARIN Engineering

Topics

- **ARIN Engineering Update**
- **NRO Technical Coordination**
- **Cryptographic Authentication**

Spring Cleaning

Detailed reassignments to be converted to simple reassignments:

- **~1,900 network records without a POC on the org or network**
- **~2,000 network records where all POCs have been identified as invalid**
- **~7,300 records where all POCs either have no email address or email address is "bogus"**

Disaster Recovery Plan (DRP)

- **Keep external services available 24x7**
  - υ**DNS**   υ**WHOIS**
  - υ**FTP**   υ**RWhois**
  - υ**Web**   υ**Routing Registry**
- **Mail System**
  - _ SMTP
  - _ Auto Responder
  - _ Mailing lists
- **Internal Operations**
- **Database Recovery**

DRP Action Items

- **Replace older hardware**
- **Replace older software**
- **Supplement existing services**
- **Replicate additional services at co-location**
- **Stage a disaster to test out the plans**

Referral Server Attribute Revisited

- **Currently informational WHOIS display only**
- **Next step is to use referral server attribute to generate root RWhois referrals**
- **Will require notification of existing RWhois referrals to referral server attributes**
  - 137 of 207 root RWhois referrals do not have corresponding referral server attributes
  - Plan on a flag day: notification + 30 days

Referral Server Attribute Proposals on DBWG

- Proposal to place the referral server attribute on network resource records

- Referral server displays on AS number queries; proposal that we change WHOIS not to display the attribute for ASNs

- Proposal to place the referral server attribute on AS resource records

New POC Types Proposed

- **New POC types proposed**
  - Network Security Officer POC
  - "Corporate" Security Officer POC
- **Not published in WHOIS**
- **For reporting concerns about misuse or mishandling of ARIN-issued certificates**

NRO Engineering Status

{ **Day-to-day Operations**

"**The NRO Secretariat shall undertake such operational responsibilities.**" *– NRO MoU Section 8*

{ **Special Projects**

"**Technical activities may be assigned by the RIRs to the NRO. The NRO Executive Council may delegate to the Secretariat the performance of technical activities.**"
– NRO MoU Section 12

NRO Activities

- Joint WHOIS
- CRISP
- DNSSEC
- Backup services for NRO operations
- ERX

Joint Whois

- **Proposal made by RIPE NCC to their community**
  http://www.ripe.net/ripe/meetings/ripe-47/ presentations/ripe47-db-crisp.pdf
- **GOAL:** *Create a system that gives the best possible answers to queries about Internet Number Resources*
- **Plan is being developed within NRO ECG**

Cross Registry Information Service Protocol (CRISP)

- CRISP requirements specified in RFC 3707
- Internet Registry Information Service (IRIS) is the implementation being pursued by the WG
- IRIS Requirements nearing completion
- Next phase is client and server application development based on the requirements
- http://www.ietf.org/html.charters/crisp-charter.html

ERX Update

- **Original Project Scope was to transfer early registrations in classful B and C address space**

- **Transfer of registrations within classful B address space is complete!**

- **Classful C's are next**

ERX Classful B Methodology

- Transferred records from one /8 at a time
- Sent notices
- Waited 30 days
- DNS updates locked
- Records transferred
- DNS transitioned to zone merge technique

ERX Statistics for 192/8

- APNIC: 752 registrations
- LACNIC: 92 registrations
- RIPE NCC: 3,185 registrations
- Conclusion: a new approach needed

ERX Methodology for 192/8

- **De-couple transfers for each RIR**
- **Lock all updates to database records**
- **Allow recipient RIR to determine the timing of the transfer for blocks of records**

Thank you!