

New Zealand Domain Name Registry Limited

Title

Jay Daley Policy implications for implementing DNSSEC in .nz

 p: (+64) (4) 931 6977
 e: registry@nzrs.net.nz

 f: (+64) (4) 931 6979
 w: www.nzrs.net.nz

 P.O. Box 24361, Wellington, New Zealand

 New Zealand
 Domain

Jay Daley - Sydney 2009



Issues that drive the policy

- Cannot turn DNSSEC off (yet)
- Æ Keys New, important things to manage
- Expectations of security
- Few properly understand DNSSEC
- Introduces new costs

Registrars

- New obligations on registrars
 - Cannot go back once DNSSEC introduced
 - Cannot just restore a backup more complex
 - Security standards for managing keys
- If registrar holds private keys ...
 - Do keys move with change of registrar?
 - Must registrar cooperate with key rollover?
 - Must keys be placed in escrow?
 - What if they won't cooperate?
- How is registrar failure handled?

Registrants

- Once DNSSEC is enabled, things change
 - Cannot just change their mind
 - Restricted in registrars they can use/move to
- If the registrant hold private keys
 - Must they go via registrar to send to registry?
 - Supports current model of many TLDs
 - Will registrar be the weakest link?
 - Can they send keys direct to registry?
 - That way keys can follow the registrant
 - Ø Breaks current model of many TLDs

What happens if their keys are compromised?

Sydney ICANN, June 2009

Technical Considerations

- How often will TLD allow key rollovers in delegated domains?
- Will TLD insist on:
 - Min/Max key size?
 - Min/Max signature lifetime?
 - KSK -> ZSK configuration?
 - Min/Max number of KSKs?
- Ø DNSSEC equivalent of lame delegations?

Education

- Whose responsibility?
- Just education or promotion as well?
- What resources do registrars need:
 - Off-the-shelf policies on key management, signatures etc?
 - List of supporting tools?
 - Support in existing toolkits?
- Do we test registrar knowledge?
 - Ø Special DNSSEC accreditation?

Pricing

- Undeniably means an increase in costs
- How does this fit with cost recovery?
 - Policy adopted by many TLDs
- Oharge more?
 - Ø Split out costs for those that use DNSSEC?
- Output Charge the same?
- Charge less?
 - Ø Drive up adoption



New Zealand Domain Name Registry Limited

Any questions?

jay@nzrs.net.nz

 p: (+64) (4) 931 6977
 e: registry@nzrs.net.nz

 f: (+64) (4) 931 6979
 w: www.nzrs.net.nz

 P.O. Box 24361, Wellington, New Zealand

 New Zealand
 Domain

Jay Daley - Sydney 2009



8