Closing remarks

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Some future prospects

- Certificates in DNS
- TLDs being CAs
- What else DNSSEC brings
- A future for ENUM?
- Technological innovation as driver of business development

Certificates in DNS

- Seems obvious to many
- DNSSEC secures the channel
- CERT record already exists
- Current X.509 market is failing to deliver
    - Less than single digit percentage of domains
- Domain-validated will do for most
- Lots of people working on it

CERT might not be enough

- Lots of CERT records under one domain?
- What order is it used?
  - Connect first, get X.509, get CERT, compare
  - Get CERT, connect, get X.509, compare
- Use a hash instead?
  - domain   CERT   hash
  - hash.domain   CERT   ...

TLD certificate authorities

- Still a market for organisation validated
- CNNIC already there
- Validate registrant identity now?
  - Then CA is logical next step
- Methods to achieve
  - Root certificate in browsers
  - Buy an intermediate
  - Use sheer weight of numbers

Certificates follow-up

- Two subjects – need two mailing lists
- Certificates in DNS
  - Written to IETF area director
  - Waiting for response
- TLDs as Certificate Authorities
  - Written to ccNSO chair
  - Waiting for response

What else for DNSSEC

- Authentication
  - OAuth possibly?
- Identity
- PKI
  - Is DNSSEC the missing piece?
- Geo-spatial RRs resurrected?

A future for ENUM

- ENUM to Metadata – E2D
  - IETF BoF
- Use cases
  - Carriers not exposing infrastructure
  - Numbering plans
  - Pre-connection policies
- Under some pressure at IETF
  - Some people just don't get DNS!!

Technology to Business

- Becoming increasingly clear
  - Technological innovation drives business development
- Many registries have research teams
- Benefits from greater collaboration
  - Lots of good ideas to be shared
  - CENTR holding meeting of minds
  - Written to ccNSO chair – waiting response

Any questions?

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