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 ...

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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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