DNSSEC @ Neustar

ICANN 45, Toronto
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DNSSEC @ Neustar
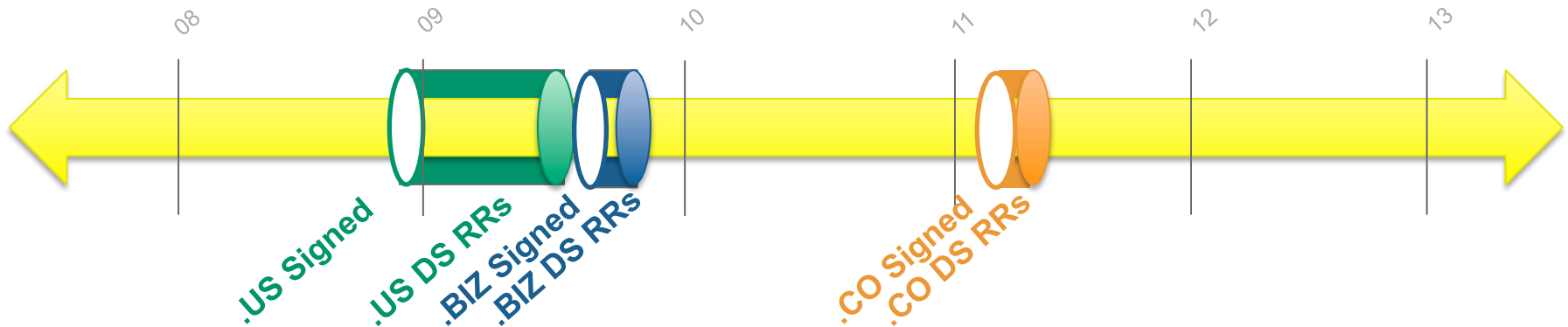
Neustar Registry Services

Neustar UltraDNS

» Preparing a platform that will make it simple to adopt

» Goals – make it painless as possible for the user/ organization

  » e.g. "set it and forget it"

Neustar Domain Name Registry

»	**.US** zone is signed	December 2009
»	**.US** zone accepts DS records	June 2010
»	**.BIZ** zone is signed	July 2010
»	**.BIZ** zone accepts DS records	August 2010
»	**.CO** zone signed	Feb 2011
»	**.CO** accepts DS records	March 2011

Neustar UltraDNS

» Design goals: operational simplicity with an abundance of caution

» Services:

  » DNS Master

  » DNS Secondary

  » API

» Challenges

  » Automatic management of DS resource records

  » Advanced DNS Services: Geo Location, Monitored DNS

Lessons learned…

1. Rarely are we asked for a specific policy; customers usually want to know capability and leave specifics to the vendor…

2. There may be costs to the customer…

3. Re-signing effort - records vs. zone

4. Frequency of key rolls – ZSK 30 days to 90 days

5. NSEC vs. NSEC3 and customer profile / use cases

6. Slow adoption may be an advantage -- e.g. shaking out operational issues; observing industry challenges and solutions

7. DNSSEC is a component of an overall strategy of securing the Internet. Critical, but only one piece.

Thank you!

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