



TRACK: DNS

Comcast DNS

Tuesday, February 7, 2012

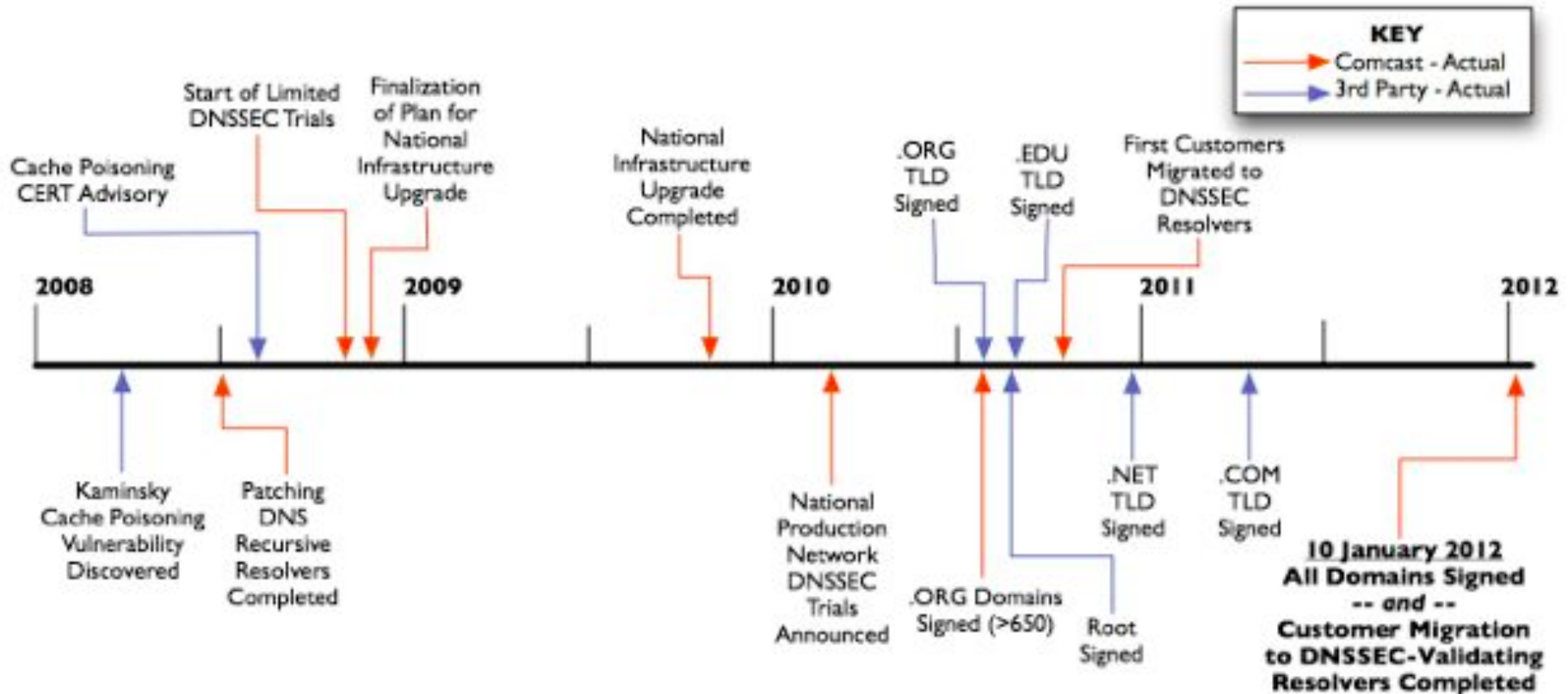


NATIONAL ENGINEERING & TECHNICAL OPERATIONS

DNSSEC UPDATE

We have completed our DNSSEC deployment as of January 10, 2012

- At the last DNS Track meeting at NANOG 53, we had ~ 25% of our caching DNS traffic performing DNSSEC validation, and several thousand authoritative DNS zones were signed.
- We now have 100% of our caching DNS traffic performing DNSSEC validation and all Comcast authoritative DNS zones signed.



DNSSEC – Increasing Adoption

There is still much work needed to make validation for name resolution stable

- More ISPs should move towards enabling DNSSEC validation on their resolvers in their network. They should also sign domains if they manage their authoritative zones.
 - Get started as soon as possible, there is a lot of planning needed to do it right.
 - Setting up a test bed and/or beta program is fairly low impact and will provide time to work through planning for eventual roll out.
 - Securing DNS answers is a value add for your customers.
- Enterprises should also look to trial DNSSEC validation in their network.
 - Setup for DNSSEC validation has become much easier with applications and tools.
 - Enterprises need security for the DNS as well.

DNSSEC – Validation and Operations Issues

There is still much work needed to make validation for name resolution stable

- There have been several high profile sites in the .GOV TLD that have had operational issues reported recently.
- Many of which immediately cause people to claim that an ISP is blocking services.
- Customers are overtly aware when a site stops working...
 - Twitter, Facebook, Blogs are the new way of alerting that a website is down. Social media is the new alerting mechanism.
- How do we help customers identify when there is a site down due to DNSSEC validation?
 - Either because of error or maliciousness.
 - Should this be done in web browsers and applications?

Thank You!



**For more information on the Comcast
DNSSEC and IPv6 deployments:**

<http://www.dnssec.comcast.net>

<http://www.comcast6.net>

<http://dns.comcast.net>

Chris Griffiths

chris_griffiths@cable.comcast.com



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