



IANA Update

*APNIC 31, Hong Kong
February 2011*

Agenda



- Addressing
- DNSSEC
- Root management
- Continuity Exercise
- Business Excellence

State of the IPv4 pool

The IPv4 pool is now fully allocated – at least at the top level

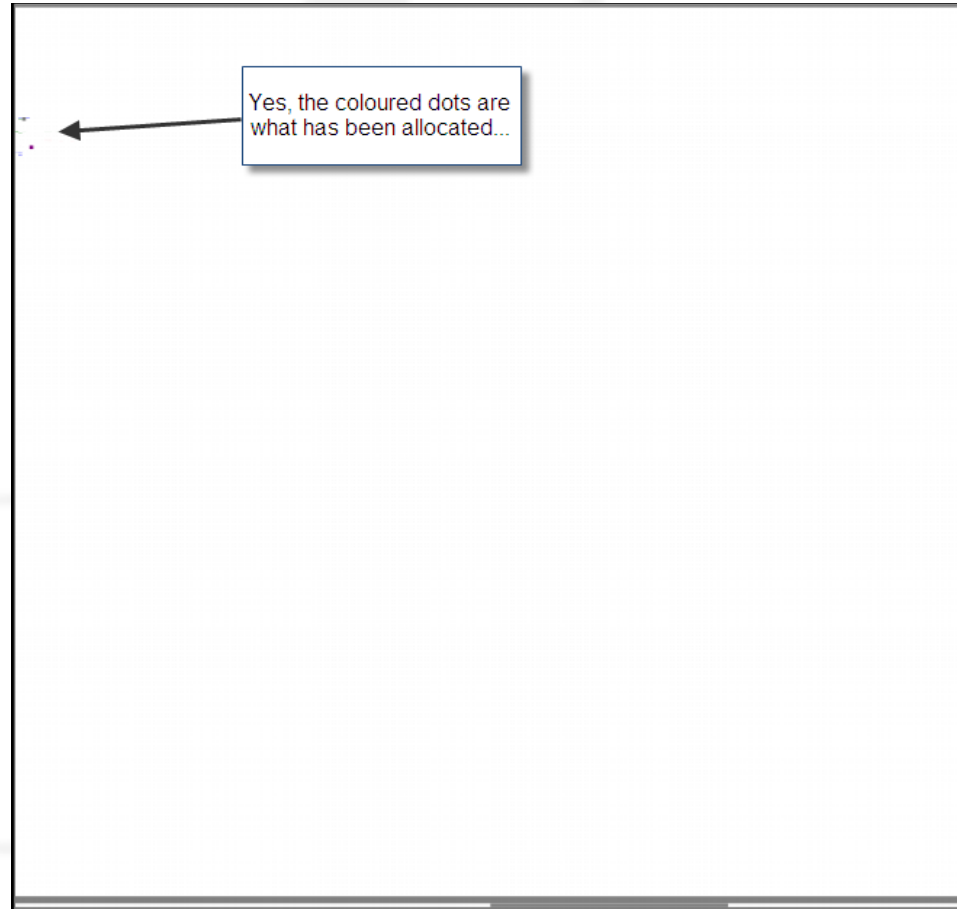


Photo by Silverstealth

But in IPv6...

We have barely started
on the IPv6 address
space yet

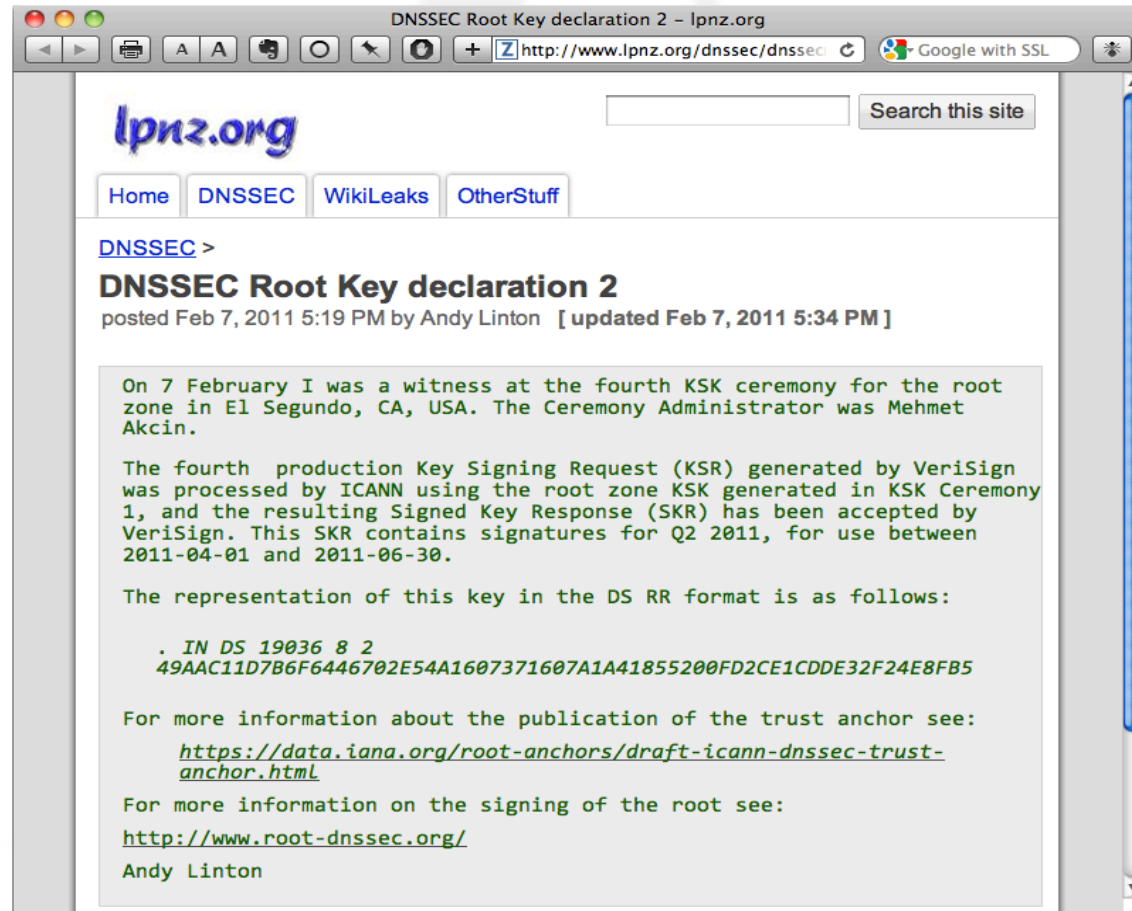
Source:
Guillaume Leclanche
v6stuff.leclanche.net



DNSSEC key signing ceremony

The 4th KSK ceremony was successfully performed in El Segundo, CA, USA on 7 February

The 5th ceremony is scheduled for May 2011, in Culpeper, VA, USA



The screenshot shows a web browser window with the address bar displaying "http://www.lpnz.org/dnssec/dnssec". The page content includes the lpnz.org logo, a search bar, and navigation links for Home, DNSSEC, WikiLeaks, and OtherStuff. The main heading is "DNSSEC Root Key declaration 2", posted on Feb 7, 2011. The text of the post describes the 4th KSK ceremony for the root zone in El Segundo, CA, USA, on February 7, 2011. It mentions that the ceremony administrator was Mehmet Akcin and that the fourth production Key Signing Request (KSR) generated by VeriSign was processed by ICANN. The resulting Signed Key Response (SKR) has been accepted by VeriSign and contains signatures for Q2 2011, for use between 2011-04-01 and 2011-06-30. The post also provides the DS RR format representation of the key and links to further information about the publication of the trust anchor and the signing of the root.

DNSSEC Root Key declaration 2 - lpnz.org

http://www.lpnz.org/dnssec/dnssec

Google with SSL

lpnz.org

Search this site

Home DNSSEC WikiLeaks OtherStuff

DNSSEC >

DNSSEC Root Key declaration 2

posted Feb 7, 2011 5:19 PM by Andy Linton [updated Feb 7, 2011 5:34 PM]

On 7 February I was a witness at the fourth KSK ceremony for the root zone in El Segundo, CA, USA. The Ceremony Administrator was Mehmet Akcin.

The fourth production Key Signing Request (KSR) generated by VeriSign was processed by ICANN using the root zone KSK generated in KSK Ceremony 1, and the resulting Signed Key Response (SKR) has been accepted by VeriSign. This SKR contains signatures for Q2 2011, for use between 2011-04-01 and 2011-06-30.

The representation of this key in the DS RR format is as follows:

```
. IN DS 19036 8 2
49AAC11D7B6F6446702E54A1607371607A1A41855200FD2CE1CDDE32F24E8FB5
```

For more information about the publication of the trust anchor see:
<https://data.iana.org/root-anchors/draft-icann-dnssec-trust-anchor.html>

For more information on the signing of the root see:
<http://www.root-dnssec.org/>

Andy Linton

Reverse zones & DNSSEC (1)



- ICANN and the RIRs have worked together on a system to allow the RIRs to update DS RRsets in IP6.ARPA and IN-ADDR.ARPA
- It is being implemented this month

Reverse zones & DNSSEC (2)



- The RIRs and ICANN have deployed a new set of nameservers:
 - [A-F].IN-ADDR-SERVERS.ARPA
 - [A-F].IP6-SERVERS.ARPA

Reverse zones & DNSSEC (3)



- IN-ADDR.ARPA zone edit function is moving from ARIN to ICANN
- It is moving off the root DNS servers & will be signed

<http://in-addr-transition.icann.org>

Reverse zones & DNSSEC (4)



- IP6.ARPA moved in December 2010 & has been signed since April 2010

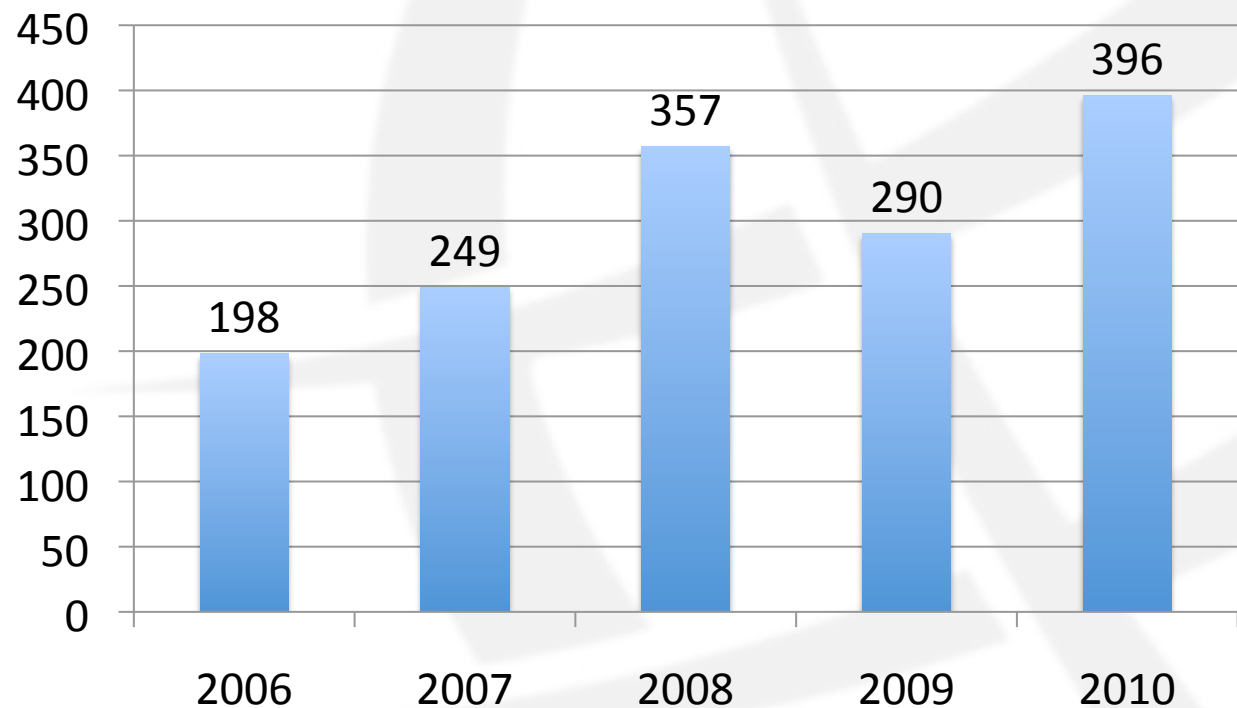
Root Management

2010 saw an all time high for the number of root management requests completed

2010 also saw the first IDN ccTLD delegations and the signing of the DNS root

Both of these contributed to the number of requests

Completed Root Management Requests



2011 continuity exercise



- Ran a table top exercise for L-root single operations
- The exercise demonstrated the DNS Ops group preparedness for local or global network issues
- Well documented procedures; communication plans; communications; and a strong understanding of how to address anycast disruptions

2011 Business Excellence Self-assessment

The IANA Department began using the EFQM (European Foundation for Quality Management) methodology for continuous improvement in 2009

EFQM is similar to the Deming Prize and Baldrige Award methodologies

The first self-assessment was carried out in January 2010

- Second self-assessment performed in January
- Strong progress seen in standardised process documentation
- New goals includes better measurements for success



Thank you