

# ICANN/IANA Update at APNIC 29

Save Vocea

Manager, Regional Relations - Australasia/Pacific  
Islands

5 March 2010, KL

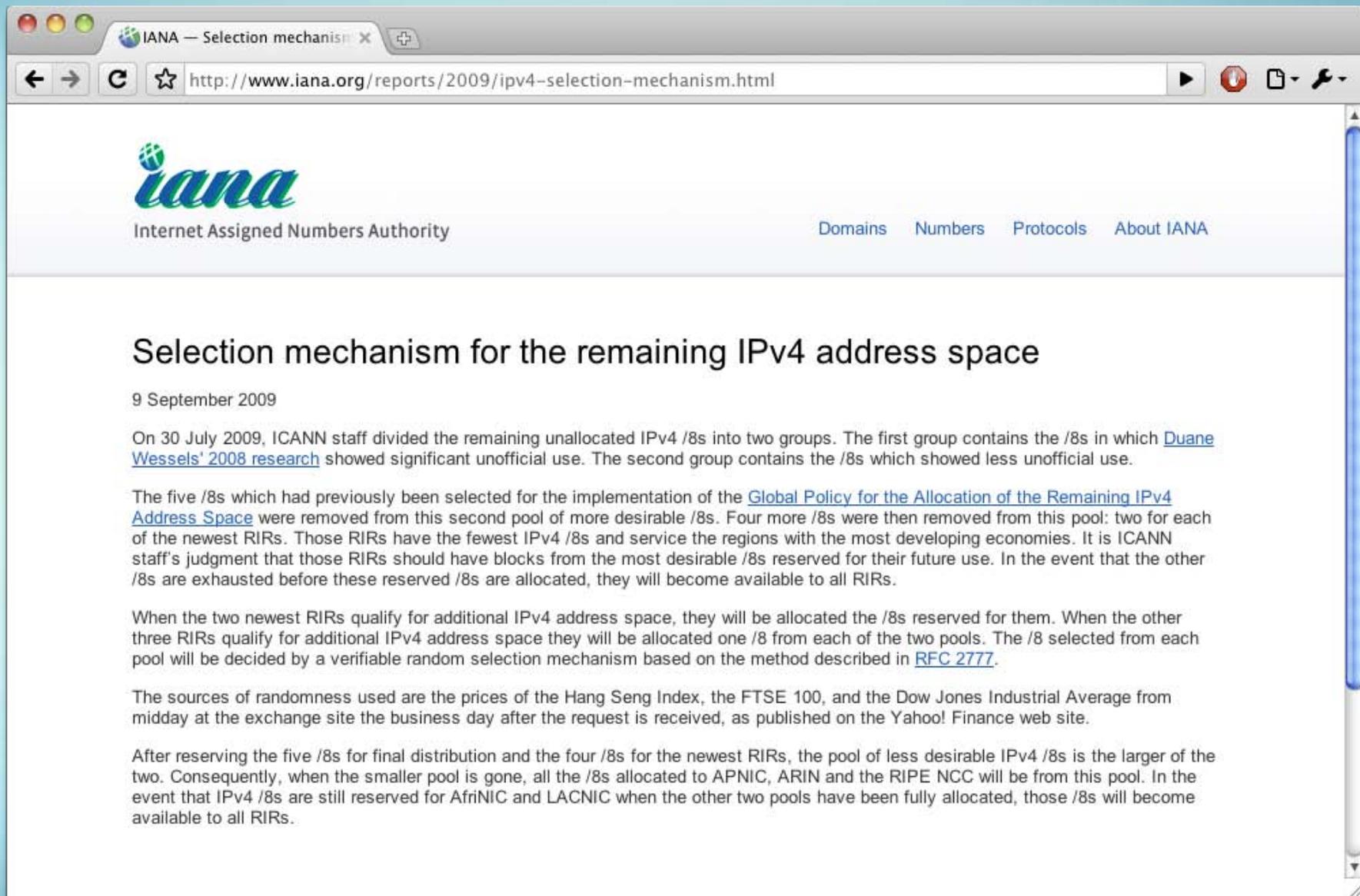
# Overview

- IPv4 status
- Reverse DNS - technical changes
- DNSSEC - progress report
- ccTLD IDN Fast Track
- IANA Business Excellence

# IPv4 - Changes since APNIC 28

Date	RIR	/8
Sep 2009	RIPE NCC	2
Sep 2009	RIPE NCC	46
Jan 2010	APNIC	1
Jan 2010	APNIC	27
Feb 2010	ARIN	50
Feb 2010	ARIN	107

# IPv4 /8 selection mechanism



The screenshot shows a web browser window with the following details:

- Browser tab: IANA — Selection mechanism
- Address bar: <http://www.iana.org/reports/2009/ipv4-selection-mechanism.html>
- Page header: IANA logo and "Internet Assigned Numbers Authority" text. Navigation links: Domains, Numbers, Protocols, About IANA.
- Section title: Selection mechanism for the remaining IPv4 address space
- Date: 9 September 2009
- Text: On 30 July 2009, ICANN staff divided the remaining unallocated IPv4 /8s into two groups. The first group contains the /8s in which [Duane Wessels' 2008 research](#) showed significant unofficial use. The second group contains the /8s which showed less unofficial use.
- Text: The five /8s which had previously been selected for the implementation of the [Global Policy for the Allocation of the Remaining IPv4 Address Space](#) were removed from this second pool of more desirable /8s. Four more /8s were then removed from this pool: two for each of the newest RIRs. Those RIRs have the fewest IPv4 /8s and service the regions with the most developing economies. It is ICANN staff's judgment that those RIRs should have blocks from the most desirable /8s reserved for their future use. In the event that the other /8s are exhausted before these reserved /8s are allocated, they will become available to all RIRs.
- Text: When the two newest RIRs qualify for additional IPv4 address space, they will be allocated the /8s reserved for them. When the other three RIRs qualify for additional IPv4 address space they will be allocated one /8 from each of the two pools. The /8 selected from each pool will be decided by a verifiable random selection mechanism based on the method described in [RFC 2777](#).
- Text: The sources of randomness used are the prices of the Hang Seng Index, the FTSE 100, and the Dow Jones Industrial Average from midday at the exchange site the business day after the request is received, as published on the Yahoo! Finance web site.
- Text: After reserving the five /8s for final distribution and the four /8s for the newest RIRs, the pool of less desirable IPv4 /8s is the larger of the two. Consequently, when the smaller pool is gone, all the /8s allocated to APNIC, ARIN and the RIPE NCC will be from this pool. In the event that IPv4 /8s are still reserved for AfriNIC and LACNIC when the other two pools have been fully allocated, those /8s will become available to all RIRs.

# What's left?

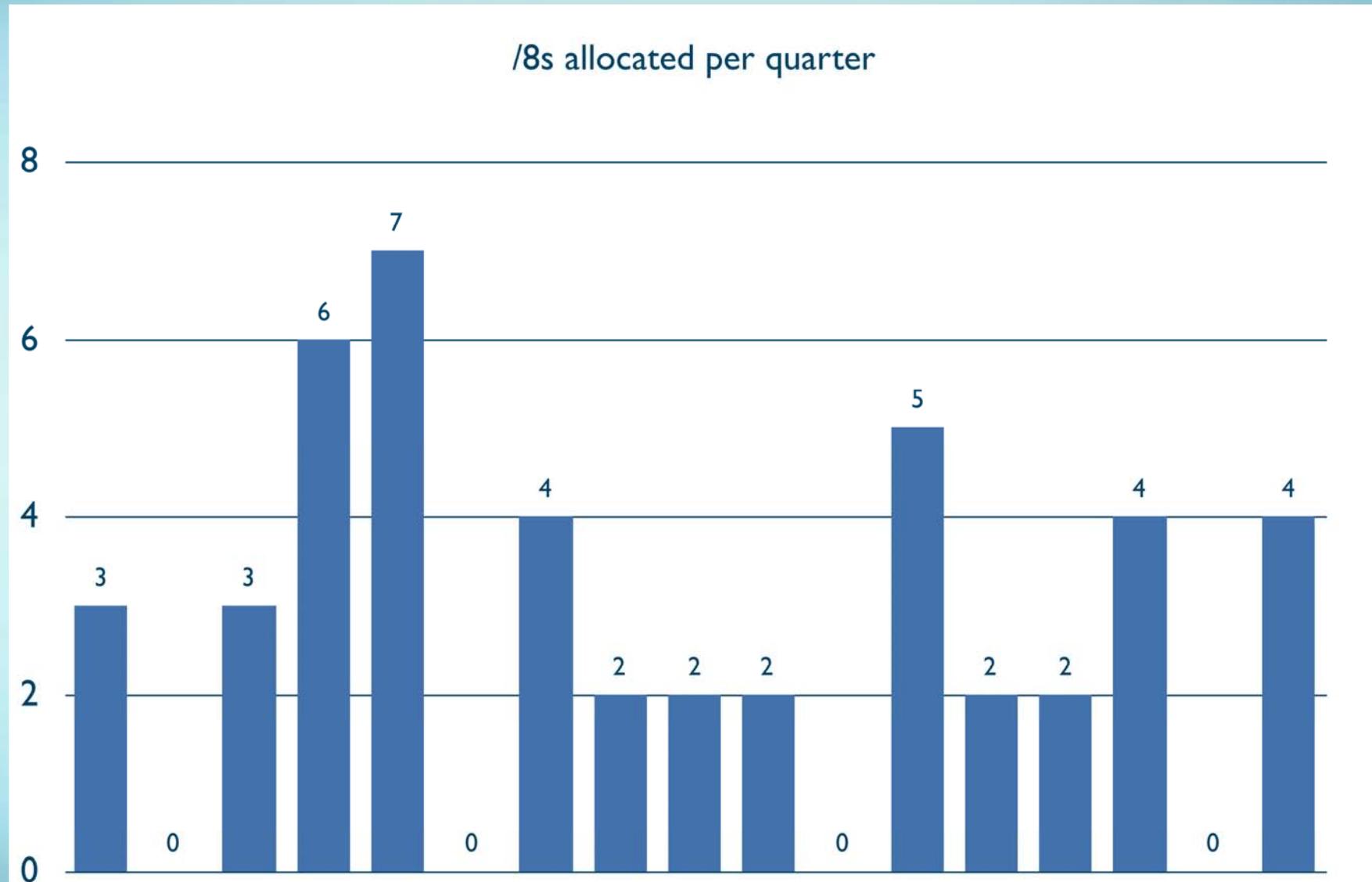
Unicast IPv4



All IPv4



# Allocation Frequency

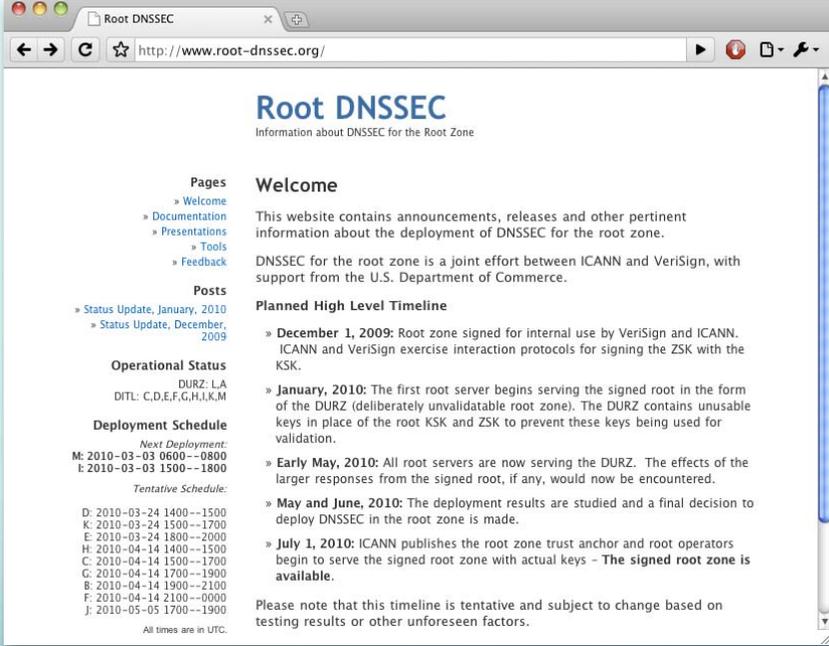


# Changes to the delegation of IN-ADDR.ARPA & IP6.ARPA

- The IESG approved draft-jabley-reverse-servers on 2 February 2010
  - This document will see the creation of IN-ADDR-SERVERS.ARPA & IP6-SERVERS.ARPA and IN-ADDR.ARPA & IP6.ARPA delegated to nameservers in those zones
  - The nameservers will be provided by ICANN and the RIRs

# DNSSEC update

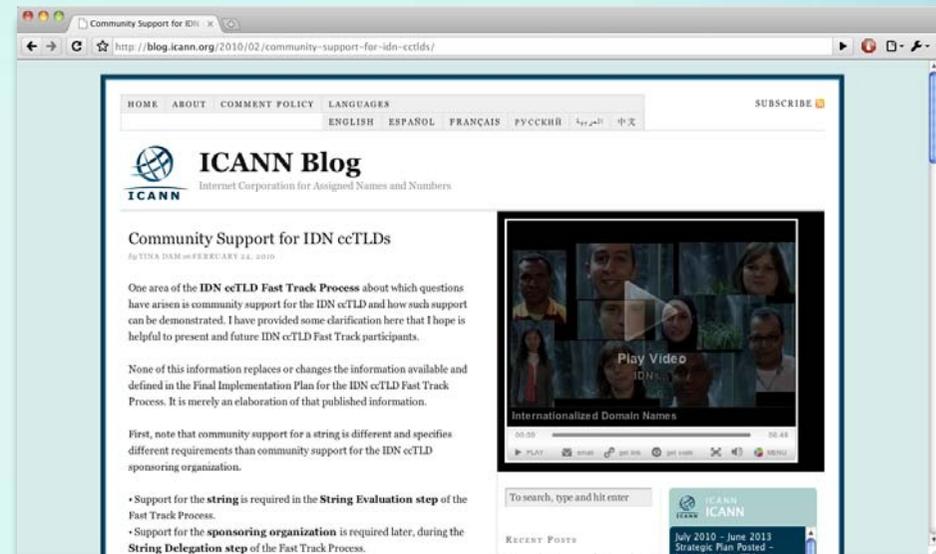
- Root on target to be signed in July
- DURZ (Deliberately- Unvalidatable Root Zone) zone being rolled out at the moment
- Regular technical updates being posted to DNS technical groups
- Full information on the web site



The screenshot shows a web browser window with the address bar displaying "http://www.root-dnssec.org/". The page title is "Root DNSSEC" and the subtitle is "Information about DNSSEC for the Root Zone". The main content area is titled "Welcome" and contains the following text: "This website contains announcements, releases and other pertinent information about the deployment of DNSSEC for the root zone. DNSSEC for the root zone is a joint effort between ICANN and VeriSign, with support from the U.S. Department of Commerce." Below this is a section titled "Planned High Level Timeline" with a list of events: "December 1, 2009: Root zone signed for internal use by VeriSign and ICANN. ICANN and VeriSign exercise interaction protocols for signing the ZSK with the KSK.", "January, 2010: The first root server begins serving the signed root in the form of the DURZ (deliberately unvalidatable root zone). The DURZ contains unusable keys in place of the root KSK and ZSK to prevent these keys being used for validation.", "Early May, 2010: All root servers are now serving the DURZ. The effects of the larger responses from the signed root, if any, would now be encountered.", "May and June, 2010: The deployment results are studied and a final decision to deploy DNSSEC in the root zone is made.", "July 1, 2010: ICANN publishes the root zone trust anchor and root operators begin to serve the signed root zone with actual keys - The signed root zone is available." A note at the bottom states: "Please note that this timeline is tentative and subject to change based on testing results or other unforeseen factors." On the left side of the page, there are navigation links under "Pages" (Welcome, Documentation, Presentations, Tools, Feedback) and "Posts" (Status Update, January, 2010; Status Update, December, 2009). There is also an "Operational Status" section listing "DURZ: LA" and "DITL: C,D,E,F,G,H,I,K,M". A "Deployment Schedule" section lists "Next Deployment:" (M: 2010-03-03 0600--0800, L: 2010-03-03 1500--1800) and "Tentative Schedule:" (D: 2010-03-24 1400--1500, K: 2010-03-24 1500--1700, E: 2010-03-24 1800--2000, H: 2010-04-14 1400--1500, C: 2010-04-14 1500--1700, G: 2010-04-14 1700--1900, B: 2010-04-14 1900--2100, F: 2010-04-14 2100--0000, J: 2010-05-05 1700--1900). A small note at the bottom says "All times are in UTC."

# ccTLD IDN Fast Track

- A number of applications have passed string evaluation
- This is followed by the regular IANA process for delegation
- More information on the ICANN blog



# IANA Business Excellence

- A Self-Assessment was carried out in January
- Several Areas for Improvement were identified
- Improvement projects are being planned & started
- A further Self-Assessment will be scheduled for Q4 2010 or Q1 2011
- A webinar providing more detail has been scheduled.  
Register at  
<http://www.icann.org/en/learning/webinars.htm>

 <b>IANA Business Excellence</b> — <a href="#">Register</a>				
Reference: IANA Department				
Description: This webinar will introduce ICANN's Business Excellence program. ICANN staff will explain the goals of the program, the methodology in use and the improvement cycle. The session will also cover the self-assessment conducted in January 2010, its outcomes and the improvement projects selected for 2010. Attendees will be able to ask questions at the end.	12 May 2010	English	18:00 - 19:00	<a href="http://blog.icann.org/2010/01/iana-business-excellence-explained/">http://blog.icann.org/2010/01/iana-business-excellence-explained/</a> <a href="http://www.iana.org/">http://www.iana.org/</a>

# Thank you!

[leo.vegoda@icann.org](mailto:leo.vegoda@icann.org)