



IANA Status Update

ARIN XXVI meeting, Atlanta

Barbara Roseman

October 2010

Overview



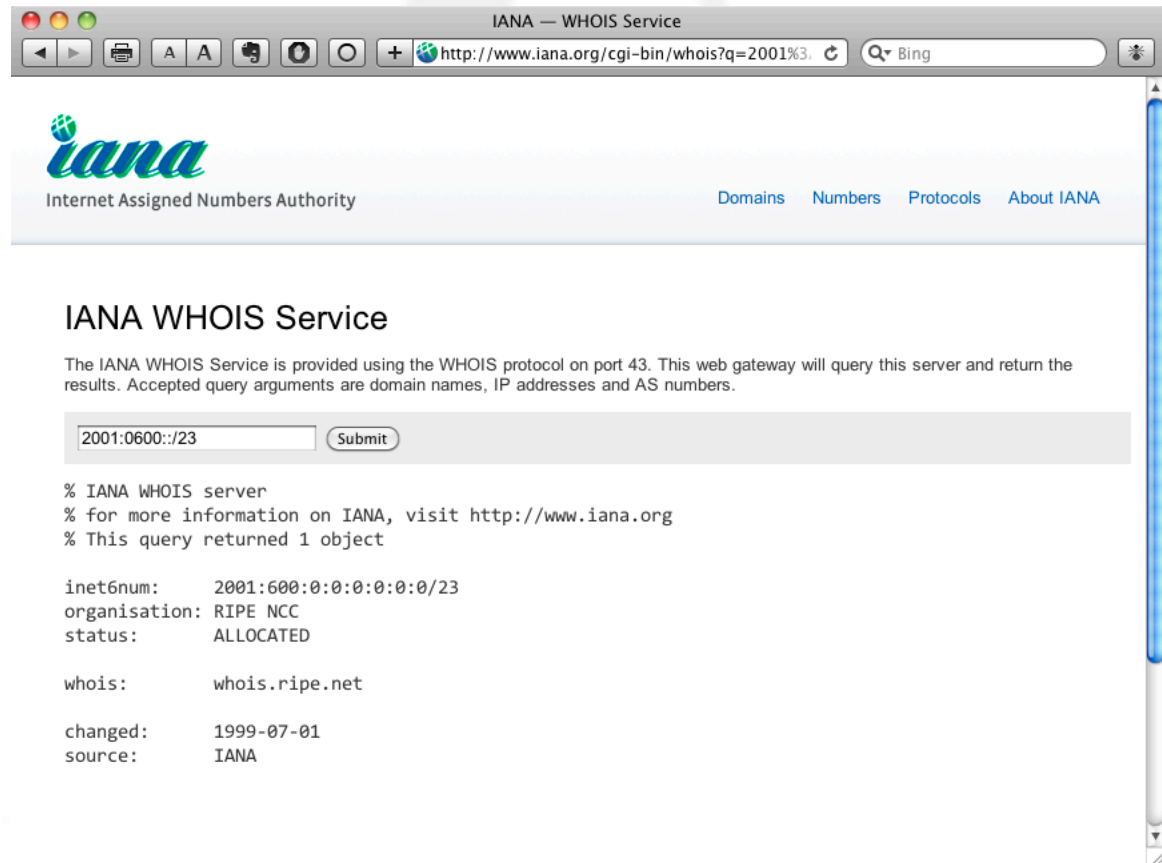
Internet Assigned Numbers Authority

- New IANA Whois Server
- IDN ccTLDs
- Root DNSSEC
- AS Numbers Global Policy
- IPv4 Status
- Root Zone Management
- DNSSEC Key Ceremony
- In other news... multicast

A new whois.iana.org

It now provides responses for:

- Unicast IP addresses
- Multicast registrations
- AS Numbers
- DS records



The screenshot shows a web browser window titled "IANA — WHOIS Service". The address bar contains the URL "http://www.iana.org/cgi-bin/whois?q=2001%3". The page features the IANA logo and navigation links for "Domains", "Numbers", "Protocols", and "About IANA". The main content area is titled "IANA WHOIS Service" and includes a brief description of the service. Below this is a search form with the input "2001:0600::/23" and a "Submit" button. The results are displayed in a text-based format:

```
% IANA WHOIS server
% for more information on IANA, visit http://www.iana.org
% This query returned 1 object

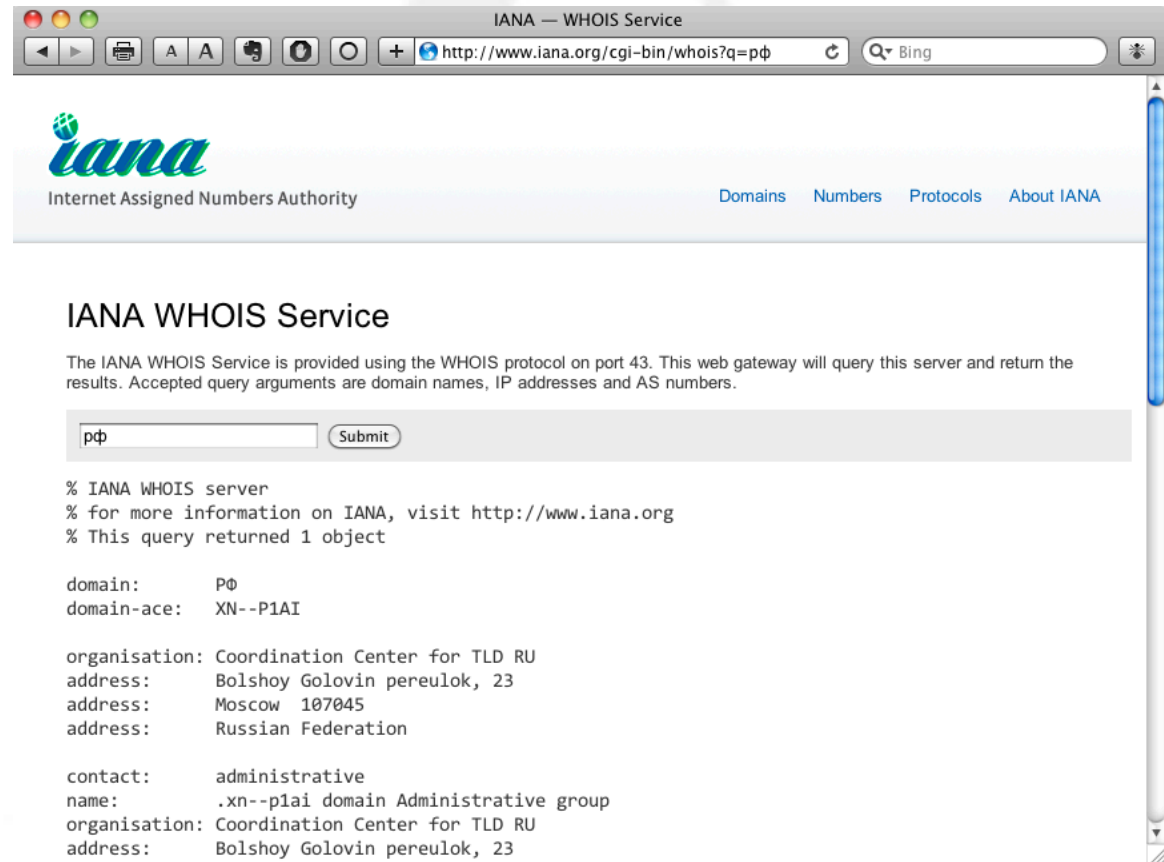
inet6num:      2001:600:0:0:0:0:0/23
organisation:  RIPE NCC
status:        ALLOCATED

whois:         whois.ripe.net

changed:       1999-07-01
source:        IANA
```

We've started delegating ccIDNs

So whois.iana.org also shows the U-label in responses and accepts it in queries



The screenshot shows a web browser window titled "IANA — WHOIS Service". The address bar contains the URL "http://www.iana.org/cgi-bin/whois?q=pφ". The page features the IANA logo and navigation links for "Domains", "Numbers", "Protocols", and "About IANA". The main heading is "IANA WHOIS Service", followed by a description of the service. Below this is a search form with the input "pφ" and a "Submit" button. The results are displayed in a monospaced font, showing the domain "Pφ" and its administrative details.

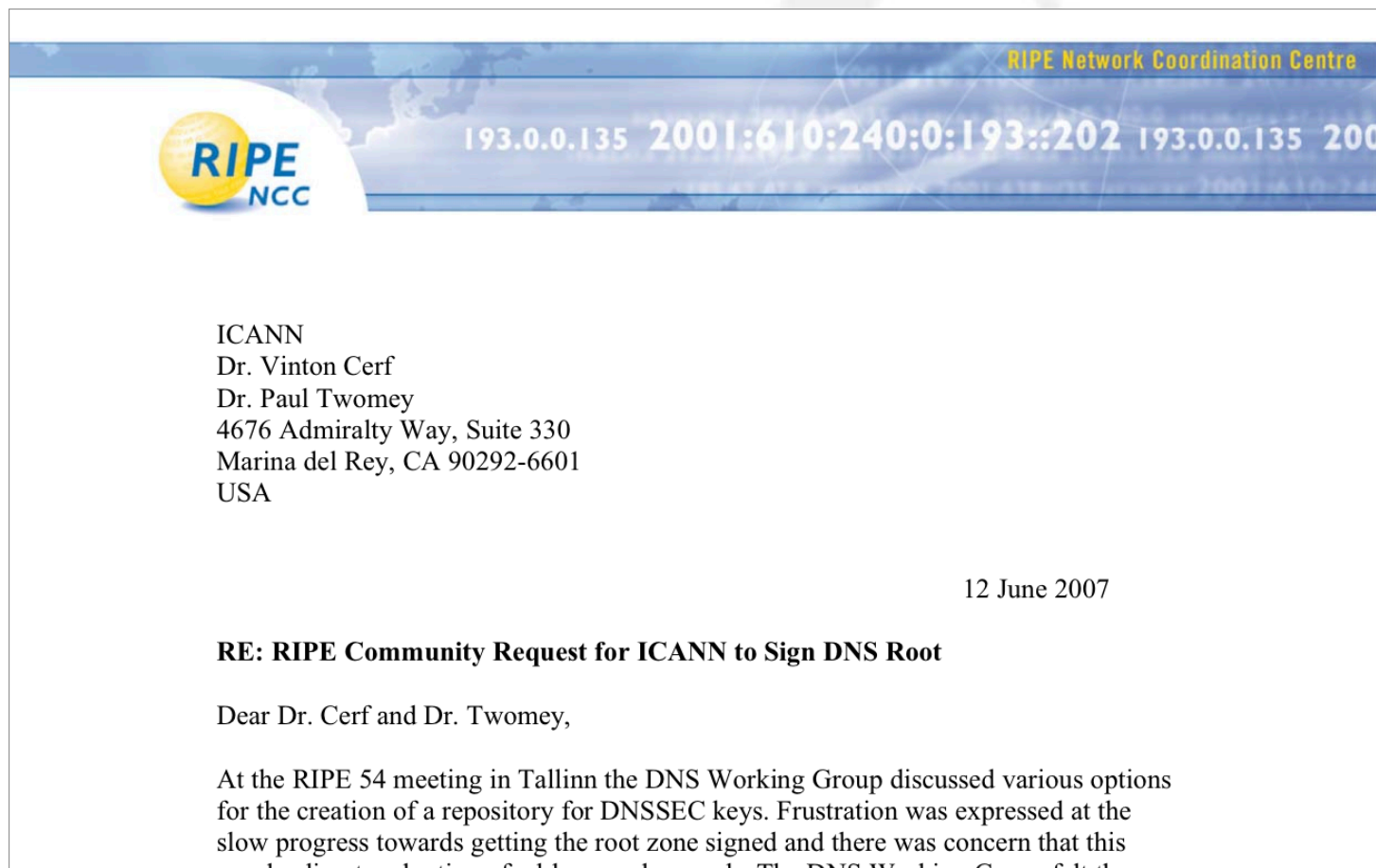
```
% IANA WHOIS server
% for more information on IANA, visit http://www.iana.org
% This query returned 1 object

domain:      Pφ
domain-ace:  XN--P1AI

organisation: Coordination Center for TLD RU
address:     Bolshoy Golovin pereulok, 23
address:     Moscow 107045
address:     Russian Federation

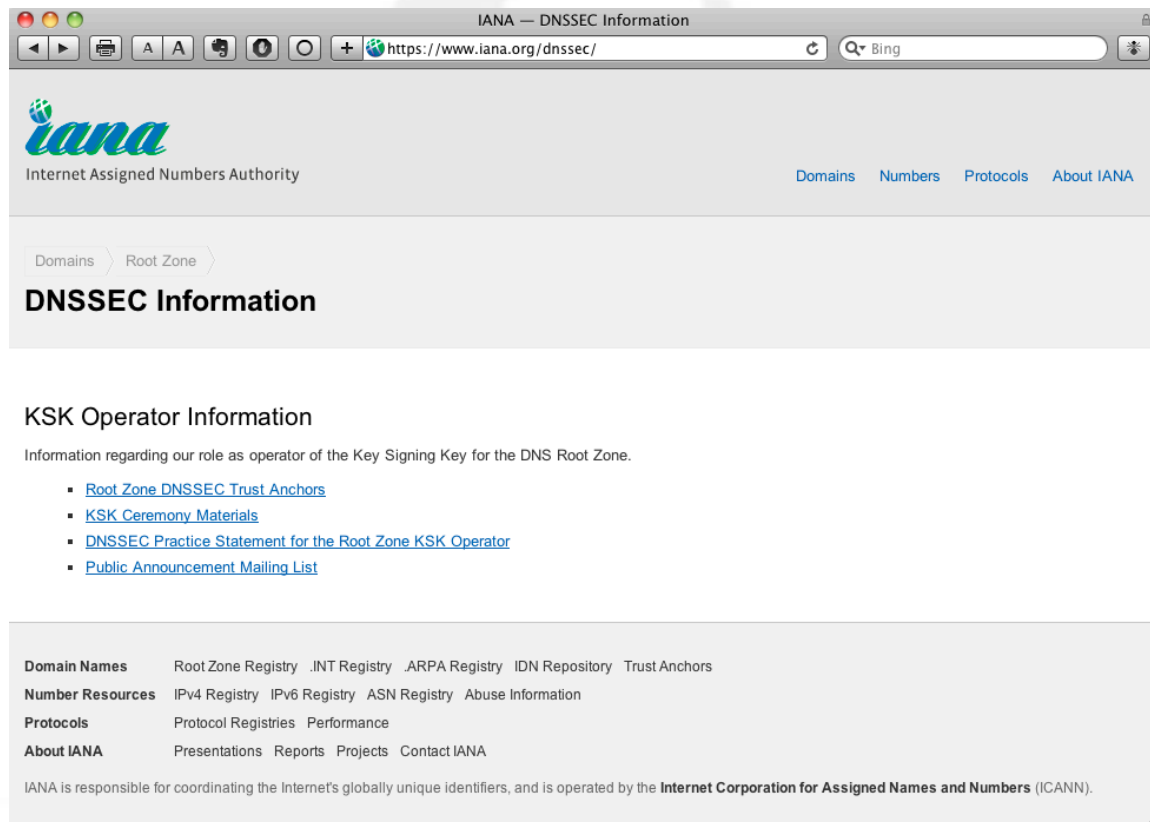
contact:     administrative
name:        .xn--p1ai domain Administrative group
organisation: Coordination Center for TLD RU
address:     Bolshoy Golovin pereulok, 23
```

You asked us to sign the root



So that's what we did

You can get the root Trust Anchor, along with KSK ceremony materials, statements of practice and other important information from the IANA web site



The screenshot shows a web browser window titled "IANA — DNSSEC Information" with the URL "https://www.iana.org/dnssec/". The page features the IANA logo and navigation links for "Domains", "Numbers", "Protocols", and "About IANA". A breadcrumb trail shows "Domains" > "Root Zone". The main heading is "DNSSEC Information".

KSK Operator Information

Information regarding our role as operator of the Key Signing Key for the DNS Root Zone.

- [Root Zone DNSSEC Trust Anchors](#)
- [KSK Ceremony Materials](#)
- [DNSSEC Practice Statement for the Root Zone KSK Operator](#)
- [Public Announcement Mailing List](#)

Domain Names	Root Zone Registry .INT Registry .ARPA Registry IDN Repository Trust Anchors
Number Resources	IPv4 Registry IPv6 Registry ASN Registry Abuse Information
Protocols	Protocol Registries Performance
About IANA	Presentations Reports Projects Contact IANA

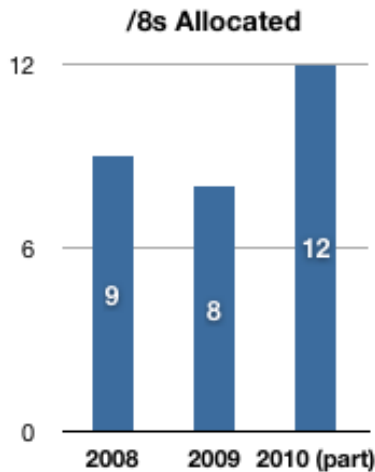
IANA is responsible for coordinating the Internet's globally unique identifiers, and is operated by the **Internet Corporation for Assigned Names and Numbers** (ICANN).

AS Numbers Global Policy

The policy allows each RIR to maintain 2 separate pools of AS Numbers until the end of 2010

- The ASO AC sent a proposal (ripe-496) to the ICANN board
- The public comment period ended on 13 August
- The proposal was ratified in September and is now policy

IPv4 Status



- 12 /8s have been allocated so far this year
- 6 have been allocated to APNIC
- ARIN, LACNIC & RIPE NCC have each received 2

IPv4 Status



- 14 unallocated /8s remain
- 9 will be allocated under the global policy that was ratified in 2005
- Then the last 5 blocks will be allocated simultaneously as per the special global policy ratified in 2009

DNSSEC Key Ceremony

- 1st ceremony held on 16 June
- The next DNSSEC key ceremony will be held on 1-2 November in Culpeper, VA, USA
- The KSR for Q1 2011 will be processed

Root
DNSSEC



Root Zone Workflow Automation

- Aim to automate as much of the root zone change process as possible
- Roles and responsibilities do not change
- TLD operators get new web based interface to interact with ICANN



Internet Assigned Numbers Authority

Root Zone Workflow Automation

- ICANN will communicate with VeriSign using EPP
- A period of parallel operations ongoing leading to full deployment expected Q1 2011



Internet Assigned Numbers Authority

In other news... multicast

1st 24 bits of unicast
address



234

- draft-ietf-mboned-ipv4-uni-based-mcast-06 approved
- Everyone with a /24 of IPv4 unicast space also has a multicast /32
- 234/8 is used for this algorithmic assignment mechanism

In other news... multicast

- We are introducing an annual review process for multicast address assignments
- We'll be updating registrant names and contact information as appropriate

Registrant name	<input checked="" type="checkbox"/>
Contact name	<input type="checkbox"/>
Address	<input type="checkbox"/>
Still required?	<input type="checkbox"/>



Thank you

One World
One Internet
Everyone
Connected

Questions