

What's going on in the world of IANA

Elise Gerich,
VP IANA
ICANN



Overview

- The numbers registries we administer
- Internet Number Resource Certification
- IPv6 outreach



Our Numbers Registries

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Numbers registries - IPv6

- Unlikely to make further allocations to RIRs near term
- ICANN and RIR staff are cooperating on clarifying the request and allocation process



Numbers registries - IPv4 (1)

- IPv4 Address Space registry is fully allocated
- Are discussing details relevant to Internet Number Resource Certification
- Terry Manderson will be publishing an I-D soon

Numbers registries - IPv4 (2)

- An assignment has been made in the IANA IPv4 Special Purpose Address Registry (RFC 5736)
- 192.0.0.0/29 for DS-LITE
- Other special use addresses are recorded in RFC 5735

2009-06-19

Last Updated
2011-06-10

This registry is also available in [plain text](#).

Registry included below

- [IANA IPv4 Special Purpose Address Registry](#)

IANA IPv4 Special Purpose Address Registry

Registration Procedures

IETF Review

Reference

[\[RFC5736\]](#)

Note

The IETF has reserved the address block of 192.0.0.0/24 for use for special purposes relating to protocol assignments. This registry contains the current assignments made by the IETF from this address block.

Address prefixes listed in the Special Purpose Address Registry are not guaranteed routability in any particular local or global context.

Prefix <input type="checkbox"/>	Assignment <input type="checkbox"/>	Date Designated <input type="checkbox"/>	Termination Date <input type="checkbox"/>	Purpose <input type="checkbox"/>	Contact Details <input type="checkbox"/>	Routing Scope <input type="checkbox"/>	Reference <input type="checkbox"/>
192.0.0.0/29	DS-lite	2011-06-10	never	For IPv4 packets generated by B4 and AFTR.		Not Routed	[RFC-ietf-softwire-dual-stack-lite-11]



Numbers registries - IPv4 (3)

- There are 27 /24s assigned to IANA and current policy does not allow them to be allocated to RIRs but:
 - They are also kept in trust as a seed for a reclamation pool and
 - They can be assigned to IETF protocols

Numbers registries - ASNs (1)

- We now have one pool of AS Numbers (0 – 4,294,967,296) and the current policy requires us to treat all AS Numbers allocated to an RIR as being in a single pool
- There is no distinction between the 16-bit (2-byte) and 32-bit (4-byte) numbers, as in the past



Numbers registries - ASNs (2)

- Some RIRs have problems with a high rate of return on 32-bit AS Numbers and this can cause a problem if they run out of 16-bit AS Numbers

Numbers registries - ASNs (3)

- Potentially, if new networks cannot use a 32-bit ASN and the RIR has no 16-bit ASNs left
- and does not qualify for more because of stock of 32-bit ASNs,
- the RIR can find itself in a deadlock between policy and reality.

Internet Number Resource Certification

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Internet Number Resource Certification (1)

- The technology has been developed in the IETF SIDR WG and is now being processed by the IESG in manageable chunks
- 10 documents in the RFC Editor queue, 1 in IESG evaluation and another waiting for AD go-ahead



Internet Number Resource Certification (2)

RFC-Editor's Queue:

draft-ietf-sidr-arch	-13	2011-05-23	RFC Ed Queue	<input type="checkbox"/> 3/3
draft-ietf-sidr-cp	-17	2011-04-19	RFC Ed Queue	<input type="checkbox"/> 1/1
draft-ietf-sidr-iana-objects	-03	2011-05-11	RFC Ed Queue	
draft-ietf-sidr-res-certs	-22	2011-05-05	RFC Ed Queue	<input type="checkbox"/> 1/1
draft-ietf-sidr-roa-format	-12	2011-05-10	RFC Ed Queue	<input checked="" type="checkbox"/> 2/3
draft-ietf-sidr-roa-validation	-10 ipr	2010-11-11	RFC Ed Queue	<input type="checkbox"/> 1/1
draft-ietf-sidr-rpki-algs	-05	2011-04-13	RFC Ed Queue	
draft-ietf-sidr-rpki-manifests	-14	2011-06-07	RFC Ed Queue	<input checked="" type="checkbox"/> 0/1
draft-ietf-sidr-signed-object	-04	2011-05-10	RFC Ed Queue	
draft-ietf-sidr-ta	-07	2011-04-13	RFC Ed Queue	<input type="checkbox"/> 1/1

Internet Number Resource Certification (3)

- The RPKI technology is being promoted by the IAB, IETF, RIRs and ICANN



Internet Number Resource Certification (4)

The NRO has asked ICANN to begin discussions with it and the IAB on ICANN operating the Global Trust Anchor (GTA) for the RPKI

February 24, 2011

Rod Beckstrom
CEO & President
ICANN

Dear Sir,

The NRO would like to resume discussions about the implementation of a global trust anchor for the RPKI system.

As you are all aware, the NRO agreed in 2009 to support the implementation of such a trust anchor as a recognized single point of trust reflective of the global IP address allocation hierarchy. We would like to move these discussions a step forward.

The NRO would like to enter into discussions with ICANN, conducting also proper talks with IAB, for a global trust anchor (GTA) to be operational in the near future. The NRO would be interested to task ICANN with the management of the GTA as a supplemental technical activity.

We look forward to hearing from you about this proposal.



Raul Echeberría
Number Resource Organization
Chair



IPv6 Outreach

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IPv6 Outreach

- A number of developing countries have spoken to our Regional Liaisons and asked for short workshops on IPv6

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British Virgin Islands

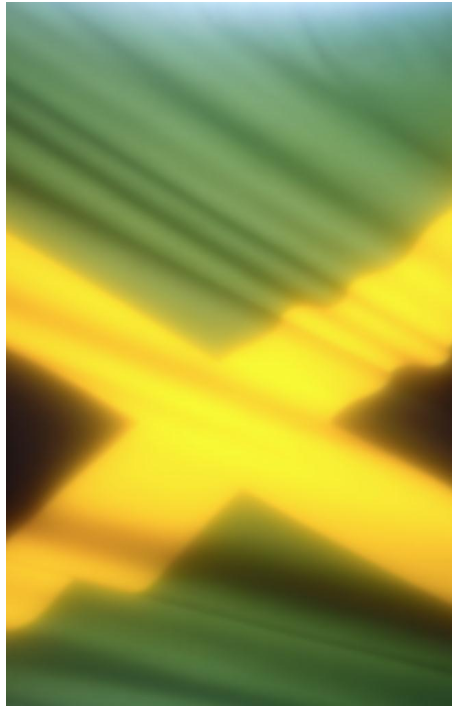
Michelle Cotton and Shernon Osepa conducted a series of preliminary IPv6 workshops in the BVI in May

Further technical workshops are planned with RIR and technical trainers



L – r Manager of Regional Relations for ICANN Shernon Osepa, Manager of Internet Engineering Task Force Relations for ICAAN Michelle Cotton, Technical and Operations Licencing Director for TRC Guy Malone, Spectrum Management & Standards Director for TRC Gregory Nelson and Chief Executive Officer of TRC, Tomas Lamanauskas. Photo:TRC

Jamaica



- Following requests, an IPv6 workshop is being planned with ARIN and technical trainers for Jamaica in early July



Thank You



Questions

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