IANA report on Internet Number and Name resources

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Overview

- Numbers
  - IPv4
  - IPv6
  - Multicast

- Names
  - IDNC
  - New gTLDs
  - RZM
  - DNSSEC
Numbers
IANA’s Role in Number Registration

- IANA provides the top level registries for IPv4, IPv6 and ASNs
- IANA staff participate in industry policy and technical forums
IPv4 - What’s left today?

35  39  182
IPv4 - What's left today?

35  39  182

protocol
IPv4 - What’s left today?

35  39  182

PROTOCOL  ALLOCATED
IPv4 - What's left today?

35

39

182

P R O T O C O L

F R E E

A L L O C A T E D
IPv4 - Rate of Consumption?

![Graph showing IPv4 consumption rates from 2004 to 2008. The bars represent consumption levels with the years '04, '05, '06, and '07 showing consumption levels of 9, 11, 10, and 13, respectively. A question mark is present for the year '08, indicating an unknown or projected value.]
IPv6 - Almost untouched
IPv6 - Close up look at Unicast
Multicast

- A way to send the same data to multiple destinations. Different from a broadcast as receivers choose to receive the data.
  - Updating the RFC for multicast assignments
  - Converting the IPv4 and IPv6 registries to XML
Names
IDN ccTLDs

- Rough estimate: Fast Track adopted mid-2009
- Will need:
  - Government support
  - Local Internet community support
- Name selection system being developed. Expect it to complement the current system.
New gTLDs

- Timeline to be aligned with IDN ccTLDs
- Application fee: not known yet
IANA Process

- No significant changes to the IANA process
- May take on more staff in IDN ccTLDs and new gTLDs prove very popular
RZM - Root Zone Management

- (E-IANA) a web based system for interacting with IANA’s root zone management process
  - Functionally complete
  - Will run in parallel to current e-mail system for a couple of months
  - Seeking approval to launch
**DNSSEC - Signing the Root**

- Operated a test DNSSEC platform for over a year
  
  [https://ns.iana.org/dnssec/status.html](https://ns.iana.org/dnssec/status.html)

- Sign the root
- Sign ARPA and INT

- Ready to put this platform into production
Thank You!

Leo Vegoda
leo.vegoda@icann.org