IANA report on Internet Number and Name resources

AfriNIC Internet Governance Seminar
Dakar, Senegal
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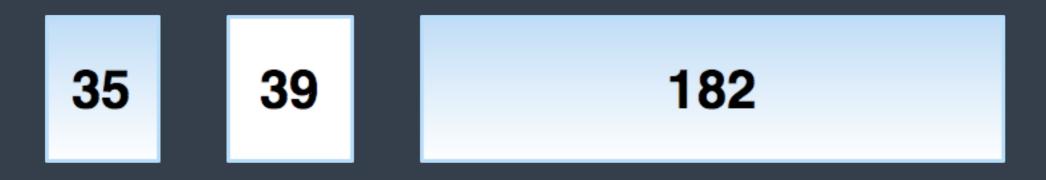Internet Corporation for
Assigned Names & Numbers

ICANN

Overview

- Numbers
  - IPv4
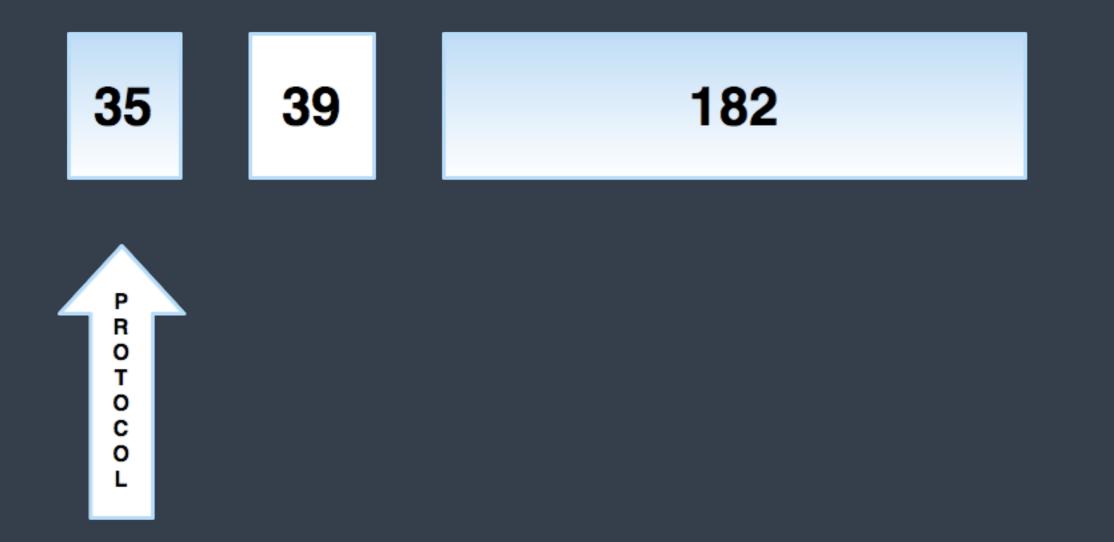 - IPv6
  - Multicast

- Names
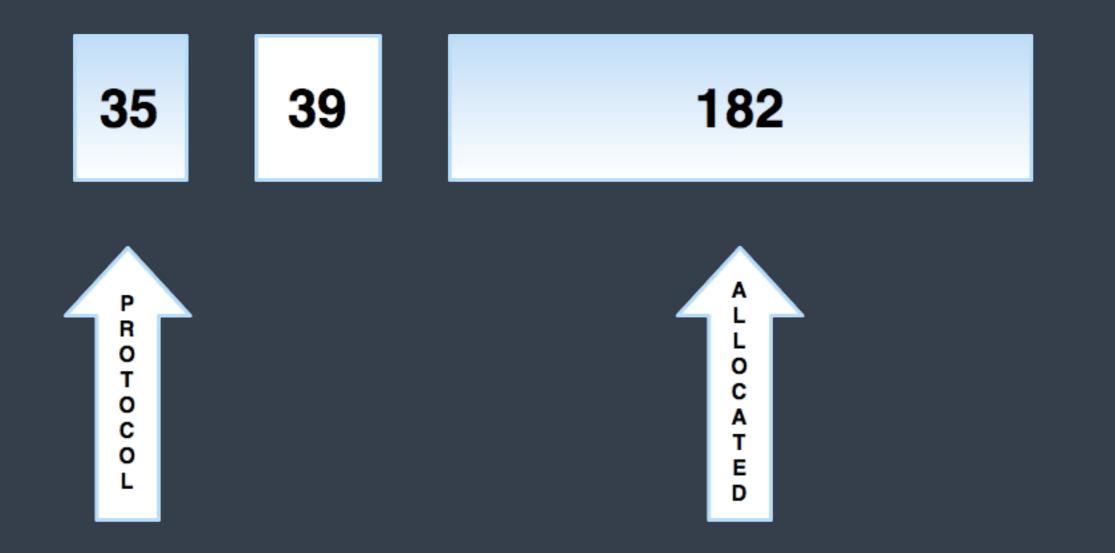 - IDNC
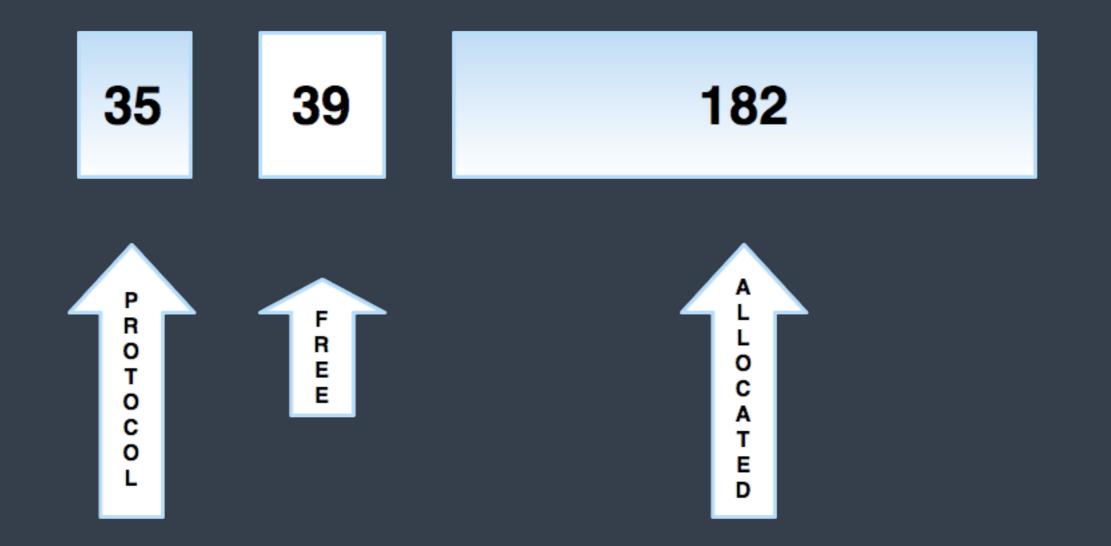 - New gTLDs
  - RZM
  - DNSSEC

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
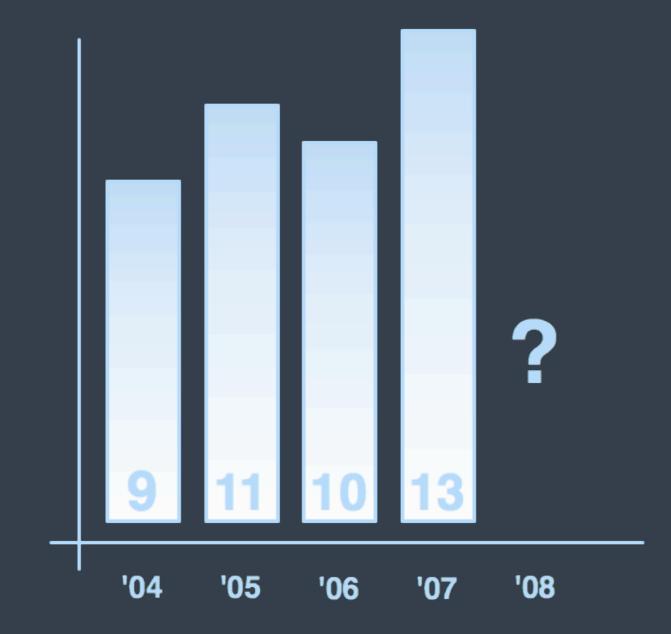
IPv4 - What's left today?

35 39 182

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IPv4 - Rate of Consumption?

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

   ‣ Sign the root

   ‣ Sign ARPA and INT

‣ Ready to put this platform into production

iana (DEMO) DNSSEC STATUS   HSM   Signer-A   Signer-B   NS

Thank You!

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