IANA and IPv6

Barbara Roseman
IANA General Manager
barbara.roseman@icann.org
Overview

• IANA’s IPv6 Registries
• IPv6 in the DNS
  – TLDs
  – Root
• Our IPv6 services
• Questions
Highlights in IPv6 Registry History

- IETF delegate IPv6 to IANA
- 1st /23s allocated to RIRs
- /7 set aside for local use
- 6bone space returned
- Special Purpose Registry created

XX February 2008
Highlights in Allocation History

- 6bone started
- RIRs agree 'bootstrap' policy
- RIRs agree 'common' policy
- Global IPv6 allocation policy adopted
- 1st RIR adopts a policy for IPv6 PI assignments

Year Timeline:
- 1996
- 1999
- 2002
- 2006
- 2006
IANA’s 4 IPv6 Registries

IPv6 Registry

Unicast

Lots of Empty

Multicast

Special

NOT TO SCALE

XX February 2008
Support for IPv6 in DNS

- IPv6 glue for TLD nameservers added in 2004
- IPv6 glue for root nameservers added in 2008
Our IPv6 Services

- IANA services are offered over IPv6
  - IPv6 nameserver
  - IPv6 mail server
  - More to follow…

- ICANN services are offered over IPv6
  - IPv6 nameserver
  - IPv6 mail server
  - IPv6 for public.icann.org and delhi.icann.org
  - More to follow…
References

- IPv6 Registry
  - http://www.iana.org/assignments/ipv6-address-space

- Announcement
Thank You

धन्यवाद