IANA Update

ARIN XXIII - San Antonio, Texas
April 2009

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Internet Corporation for
Assigned Names & Numbers

Topics

‣ Global Policy

‣ IPv4 Pool Status

‣ AS Number Pool Status

‣ IETF Work

‣ New Views of Registry Data

‣ Automating & Securing Reverse DNS Management

Global Policy

‣ "Global Policy for the Allocation of the Remaining IPv4 Address Space" ratified by the ICANN board on 6 March 2009

   ‣ http://www.icann.org/en/general/allocation-remaining-ipv4-space.htm

‣ 5 /8s have been selected and set aside

‣ Prepared for the final IPv4 allocation

IPv4 - since ARIN XXII

‣ 32 /8s remain unallocated

‣ 6 /8s allocated

  ‣ 2 to APNIC

  ‣ 2 to ARIN

  ‣ 2 to RIPE NCC
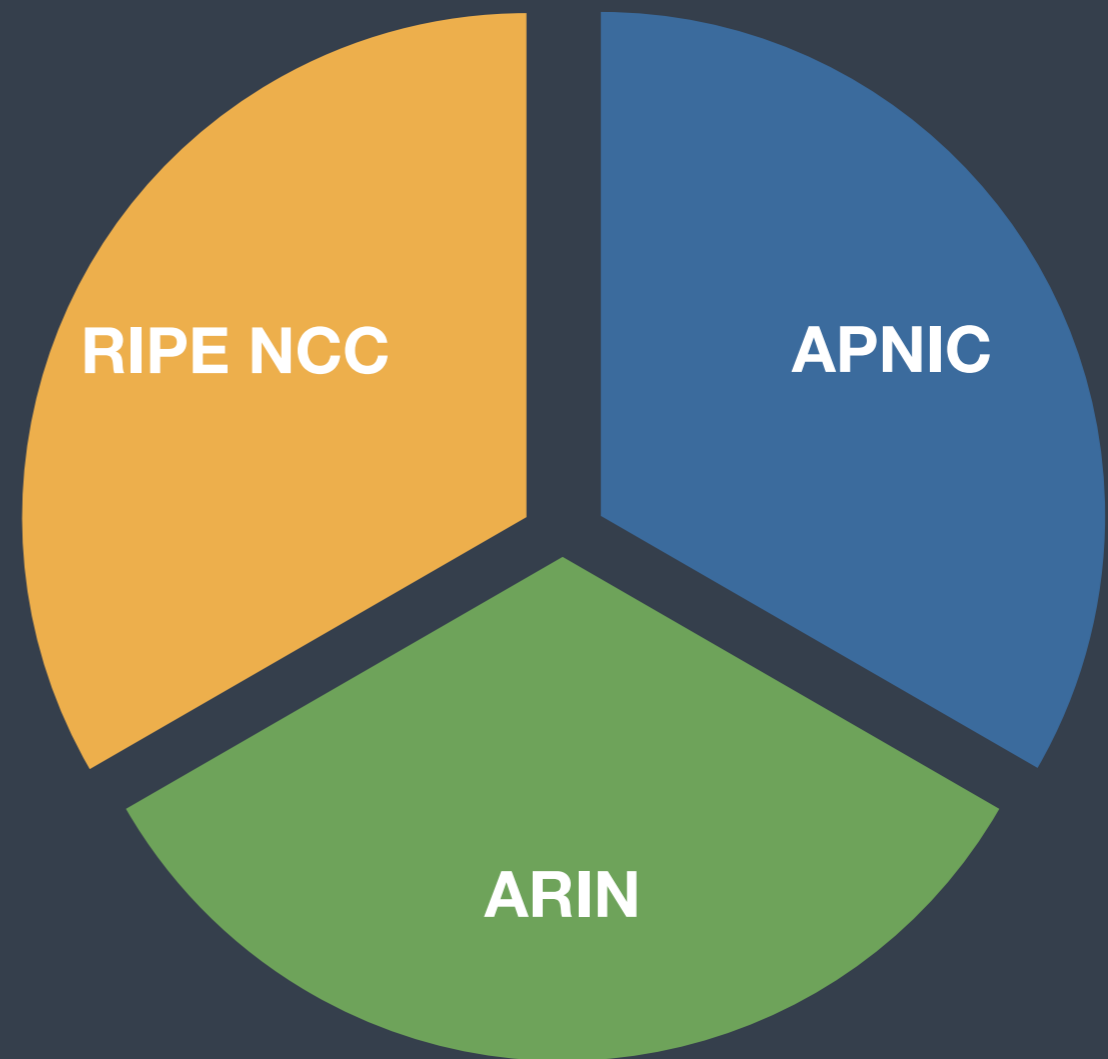
AS Numbers - since ARIN XXII

‣ 6 16-bit blocks allocated

  ‣ 1 to LACNIC

  ‣ 2 to ARIN

  ‣ 3 to RIPE NCC

IETF work

‣ draft-iana-rfc3330bis

   ‣ Last Called. Will be Last Called again as a BCP

‣ draft-iana-special-ipv4-registry

   ‣ Creates a registry for IETF protocol assignments from 192.0.0.0/24

‣ draft-ietf-mboned-rfc3171bis

   ‣ WG Last Called. Issues raised will be addressed.

New Views of Registry Data

‣ There are several registries for different parts of the IPv6 address space.

‣ We are developing a single, unified view of these registries

‣ It will allow branches to be collapsed/expanded

‣ It will show/hide unallocated space

Now you see it...

2880::/9	Unallocated	
2900::/8	Unallocated	
2A00:0000::/12	RIPE NCC	[IANA registry *ipv6-unicast-address-assignments*]
2A10::/12	Unallocated	
2A20::/11	Unallocated	
2A40::/10	Unallocated	
2A80::/9	Unallocated	
2B00::/8	Unallocated	
2C00:0000::/12	AfriNIC	[IANA registry *ipv6-unicast-address-assignments*]
2C10::/12	Unallocated	
2C20::/11	Unallocated	
2C40::/10	Unallocated	
2C80::/9	Unallocated	
2D00::/8	Unallocated	
2E00::/7	Unallocated	
3000::/4	Unallocated	
4000::/3	Reserved by IETF	[IANA registry *ipv6-address-space*]
6000::/3	Reserved by IETF	[IANA registry *ipv6-address-space*]
8000::/3	Reserved by IETF	[IANA registry *ipv6-address-space*]
A000::/3	Reserved by IETF	[IANA registry *ipv6-address-space*]
C000::/3	Reserved by IETF	[IANA registry *ipv6-address-space*]
E000::/4	Reserved by IETF	[IANA registry *ipv6-address-space*]
F000::/5	Reserved by IETF	[IANA registry *ipv6-address-space*]
F800::/6	Reserved by IETF	[IANA registry *ipv6-address-space*]
FC00::/7	Unique Local Unicast	[IANA registry *ipv6-address-space*]
FE00::/9	Reserved by IETF	[IANA registry *ipv6-address-space*]
FE80::/10	Link Local Unicast	[IANA registry *ipv6-address-space*]
FEC0::/10	Reserved by IETF	[IANA registry *ipv6-address-space*]
⊞ FF00::/8	Multicast	[IANA registry *ipv6-address-space*]

☑ **Show unallocated space**

… Now you don't

2001:4A00::/23	RIPE NCC	[IANA registry *ipv6-unicast-address-assignments*]
2001:4C00::/23	RIPE NCC	[IANA registry *ipv6-unicast-address-assignments*]
2001:5000::/20	RIPE NCC	[IANA registry *ipv6-unicast-address-assignments*]
2001:8000::/19	APNIC	[IANA registry *ipv6-unicast-address-assignments*]
2001:A000::/20	APNIC	[IANA registry *ipv6-unicast-address-assignments*]
2001:B000::/20	APNIC	[IANA registry *ipv6-unicast-address-assignments*]
2002:0000::/16	6to4	[IANA registry *ipv6-unicast-address-assignments*]
2003:0000::/18	RIPE NCC	[IANA registry *ipv6-unicast-address-assignments*]
2400:0000::/12	APNIC	[IANA registry *ipv6-unicast-address-assignments*]
2600:0000::/12	ARIN	[IANA registry *ipv6-unicast-address-assignments*]
2610:0000::/23	ARIN	[IANA registry *ipv6-unicast-address-assignments*]
2620:0000::/23	ARIN	[IANA registry *ipv6-unicast-address-assignments*]
2800:0000::/12	LACNIC	[IANA registry *ipv6-unicast-address-assignments*]
2A00:0000::/12	RIPE NCC	[IANA registry *ipv6-unicast-address-assignments*]
2C00:0000::/12	AfriNIC	[IANA registry *ipv6-unicast-address-assignments*]
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☐ **Show unallocated space**		

Automating & Securing Reverse DNS Management

‣ Systems for securely accepting DNSSEC delegation material from RIRs signing reverse domains passed alpha testing

‣ Beta testing targeted (and on target) for last week of July

‣ Thanks to RIR technical staff for their cooperation

Thank You

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