

# Member Services Department

Susan Hamlin,  
Director



# Overview

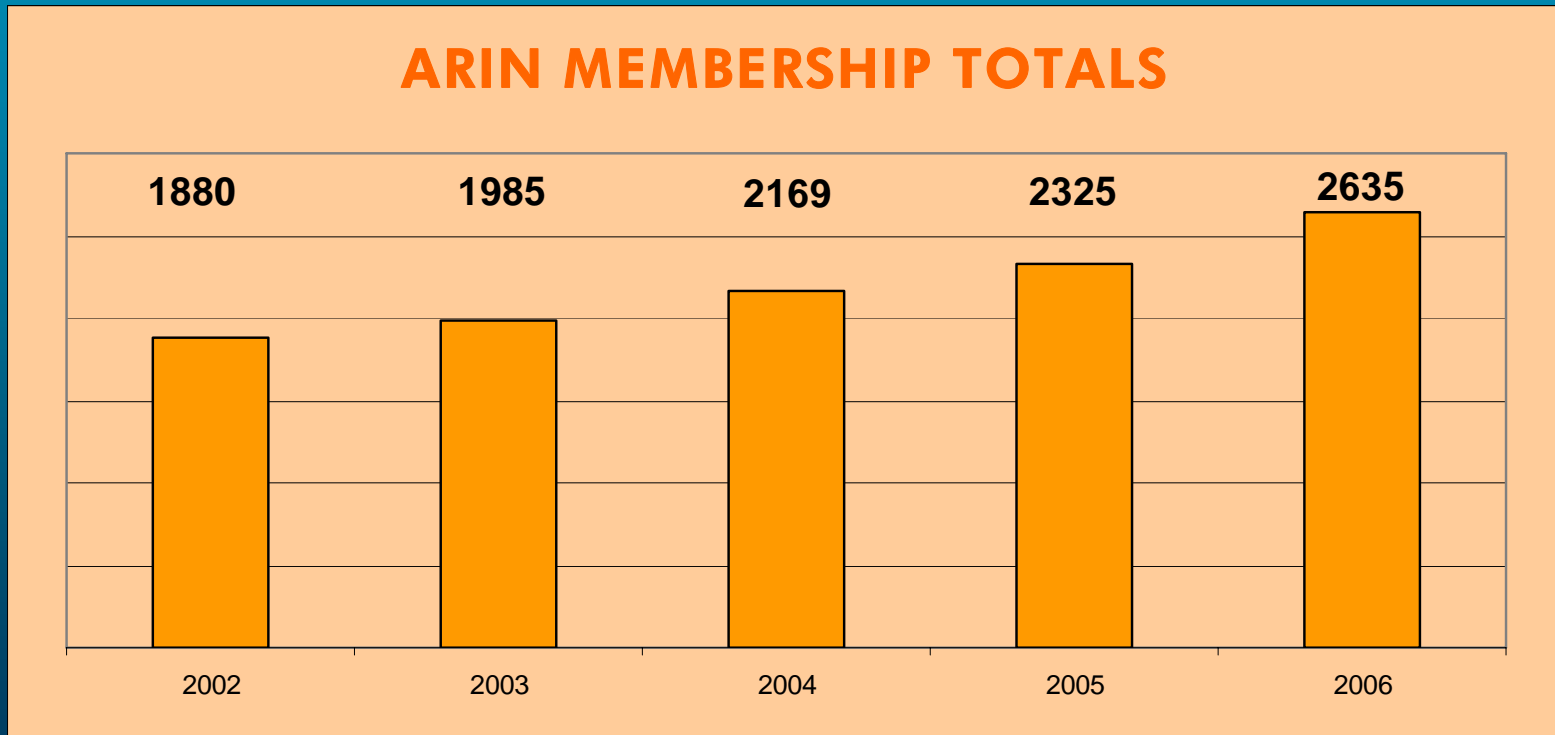
- **Staff**
- **Statistics**
- **Services we sustain**
- **Some new things**
- **Some things to anticipate**
- **Some things to note**

# Member Services Team

Website Support Specialist, Director Member Services, Meeting Program Administrator, Public Affairs Director, Member Services Operations Manager



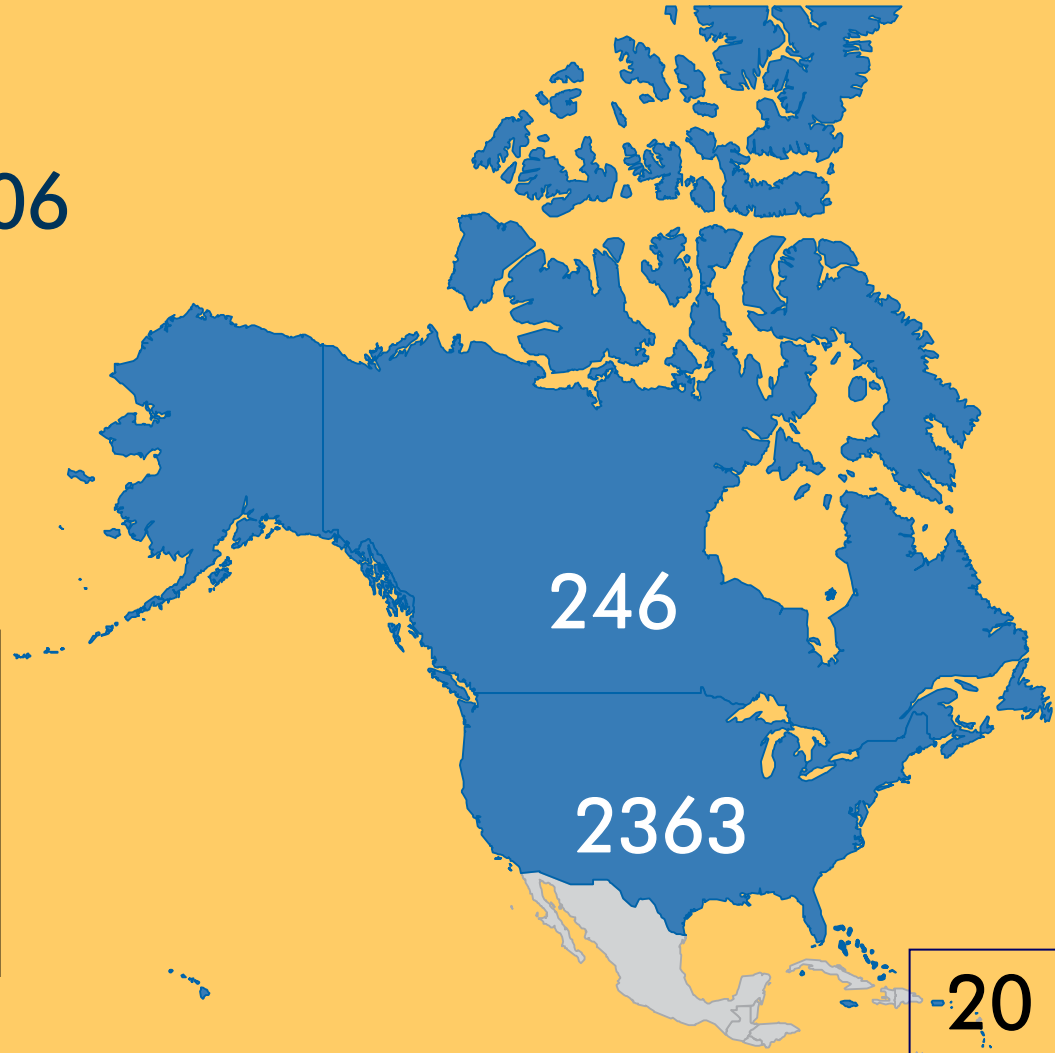
# Statistics: Membership Growth



# Statistics: Membership Geography

September 30, 2006

Total: 2635



Outside ARIN			
 AfrinIC			
 APNIC	<b>3</b>	 RIPE NCC	<b>3</b>

# Services We Sustain

- **Communication and Education:**
  - ➔ Website, mail list announcements
  - ➔ ARIN Review, Annual Report
  - ➔ CBTs, flow charts, tutorials
  - ➔ info@arin.net
- **Public Policy Development Process**
  - ➔ PPML
  - ➔ Policy tracking
  - ➔ NRPM
- **Membership**
  - ➔ Database - Designated Member Representatives
  - ➔ Welcome Packet

# Services We Sustain

## ● Association Business

- ⇒ Bylaws
- ⇒ Elections  **CAST YOUR VOTE**
- ⇒ Public Policy and Member Meetings

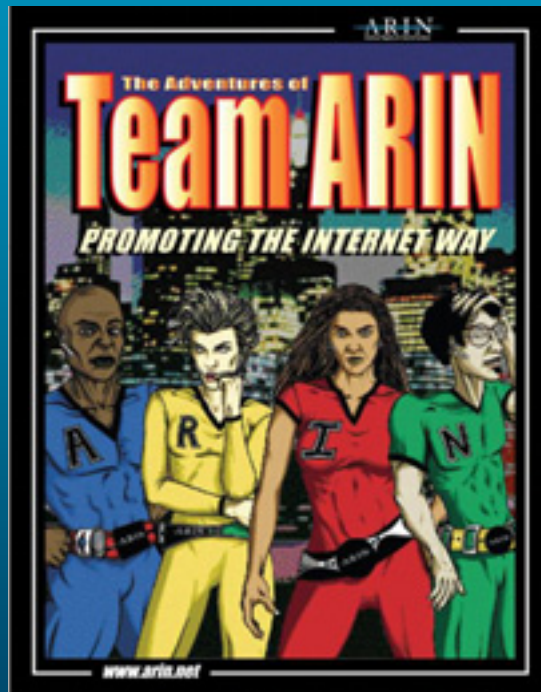
## ● Outreach

- ⇒ Presentations
- ⇒ Public affairs – media relations
- ⇒ Collateral – fact sheet, info flyers, comic book...

## ● NRO

- ⇒ Communications Coordination
- ⇒ IGT and ITU Telecom World 2006

# Some New Things



THE FOLLOWING PREVIEW HAS BEEN APPROVED FOR  
ALL AUDIENCES

THE FILM ADVERTISED IS NOW PLAYING IN THE CYBER CAFÉ

**C** COMMUNITY PARTICIPATION STRONGLY  
ENCOURAGED

SOME MATERIAL MAY PROVE EDUCATIONAL

COMMUNITY INVOLVEMENT, BENEFITS OF ARIN  
MEETINGS, AND SOME POLICY PROCESS  
REFERENCES

Send your comments and ideas to [info@arin.net](mailto:info@arin.net)



# Some More New Things



**About IP Addresses**

**What is an IP address?**  
An Internet Protocol (IP) address is a number that identifies a device on a computer network.

**Who uses IP addresses?**  
Anyone that uses the Internet uses an IP address, otherwise devices directly connected to the Internet wouldn't be assigned an IP address. They are used on things like home computers, cell phones, network routers, and many household appliances, cell phones, flight sensors, and other devices.

**How do I get an IP address?**  
You usually get an IP address from your Internet Service Provider (ISP). As a home Internet user, your ISP "leases" IP addresses to use while you're on the Internet. They don't lease your address, and to be fair, you don't lease their IP address, but they may lease this same IP address to multiple users on the network.

**In some cases, your ISP might need to get a unique block of IP addresses from an ISP or from a Regional Internet Registry like ARIN.**

**For more information, visit us at [www.arin.net](http://www.arin.net) or e-mail us at [info@arin.net](mailto:info@arin.net).**



**IPv4 and IPv6**

**What is Internet Protocol?**  
Internet Protocol is a set of standards that define how computers communicate over a network. There are currently two versions of IP: version 4 (IPv4) and version 6 (IPv6).

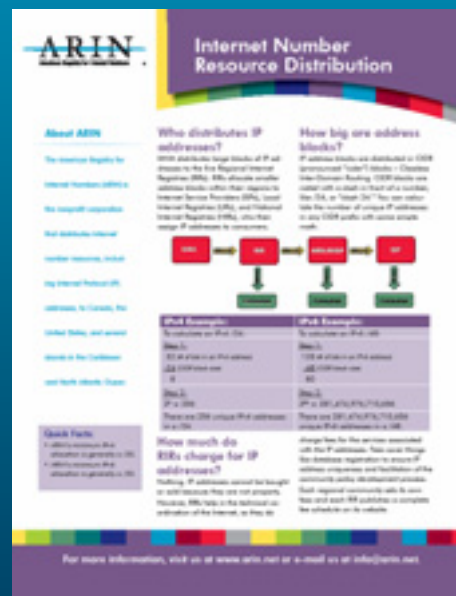
**What are the major differences?**  
The major difference between IPv4 and IPv6 is the number of IP addresses. There are just over 4 billion IPv4 addresses. In contrast, there are over 340 trillion IPv6 addresses.

**What is IPv4?**  
IPv4 is the first version of Internet Protocol that is widely used, and all accounts for most of today's Internet traffic. There are over 4 billion IPv4 addresses. While that is a lot of IP addresses, it's not enough for future demand.

**What is IPv6?**  
IPv6 is an enhancement for IPv4. It was developed in 1998 and provides for over 340 trillion IPv6 addresses, which should meet demand well into the future.

	Internet Protocol version 4 (IPv4)	Internet Protocol version 6 (IPv6)
Protocol	32-bit	128-bit
Address Size	32-bit number	128-bit number
Address Format	Dotted Decimal Notation (e.g. 4.4.4.4)	Hexadecimal Notation (e.g. 0:0:0:0)
Number of Addresses	2 <sup>32</sup> or ~4 billion addresses	2 <sup>128</sup> or ~340 trillion addresses

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**Internet Number Resource Distribution**

**Who distributes IP addresses?**  
ARIN distributes large blocks of IP addresses to the five Regional Internet Registries (RIRs). RIRs allocate smaller address blocks into their regions to Internet Service Providers (ISPs), local Internet Registries (LIRs), and National Internet Registries (NIRs), who then assign IP addresses to consumers.

**How big are address blocks?**  
IP address blocks are distributed in 1998 announced "order" sizes: Classless Inter-Domain Routing (CIDR) blocks are defined in bits on both sides of the slash, the "SL" or "mask" size. They are written like the number of unique IP addresses in one CIDR prefix with some simple math.

**IPv4 Examples:**

- 2001:000:0000:0000:0000:0000:0000:0000 to 2001:000:0000:0000:0000:0000:0000:0000 (2<sup>32</sup> addresses)
- 2001:000:0000:0000:0000:0000:0000:0000 (2<sup>32</sup> addresses)
- 2001:000:0000:0000:0000:0000:0000:0000 (2<sup>32</sup> addresses)

**IPv6 Examples:**

- 2001:0000:0000:0000:0000:0000:0000:0000 to 2001:0000:0000:0000:0000:0000:0000:0000 (2<sup>128</sup> addresses)
- 2001:0000:0000:0000:0000:0000:0000:0000 (2<sup>128</sup> addresses)
- 2001:0000:0000:0000:0000:0000:0000:0000 (2<sup>128</sup> addresses)

**Quick Facts:**

- ARIN manages the global IP address space.
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**Regional Internet Registries**

**About ARIN**

There are five Regional Internet Registries, or RIRs. ARIN is currently responsible for North America. The other four RIRs are:

- APNIC (Asia-Pacific)
- RIPE (Europe)
- LACNIC (Latin America)
- AfriNIC (Africa)

Each RIR is responsible for the distribution of IP addresses to its region.

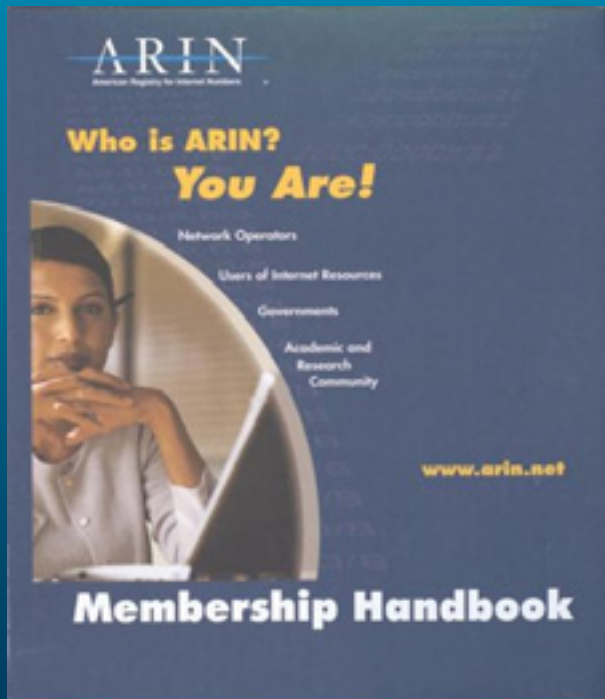
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In the Media section:

<http://www.arin.net/media/index.html>

# Something to Anticipate

## In the mail by 30 January



### Table of Contents includes:

- Acronym Definition Sheet
- Requesting Resources Sheet
- Billing Info Sheet
- Record Management Info Sheet
- PPML FAQ/Fact Sheet
- Election Sheet
- IPv6 Brochure
- Current IRPEP Version
- Current NRPM Version
- CD-Rom
- A Surprise

# Something to Anticipate

## The ARIN Policy Process: From Ideas to Action



# Some Things to Note



**30 October – 3 November**  
**Athens, Greece**

**NRO workshop presentations:**  
**Themes of Participation &**  
**Capacity Building**



**7 – 9 November**  
**Santa Clara, CA**

**ARIN Presentations, 8 Nov.**

- IPv6 Panel
- About ARIN – Demo Session



**VISIT ARIN BOOTH - # 220**

# Some Things to Note



## “Living the Digital World”

Bringing the world's leading ICT companies, decision-makers, organizations, and governments together...



**Internet Pavilion:**

**NRO, ICANN, ISOC**

# Note: 2007 Meetings

**February: ARIN Caribbean Workshop**

**22-25 April: ARIN XIX**

**17-19 October: ARIN XX**

**LOCATIONS COMING SOON!**

**Thank You**