

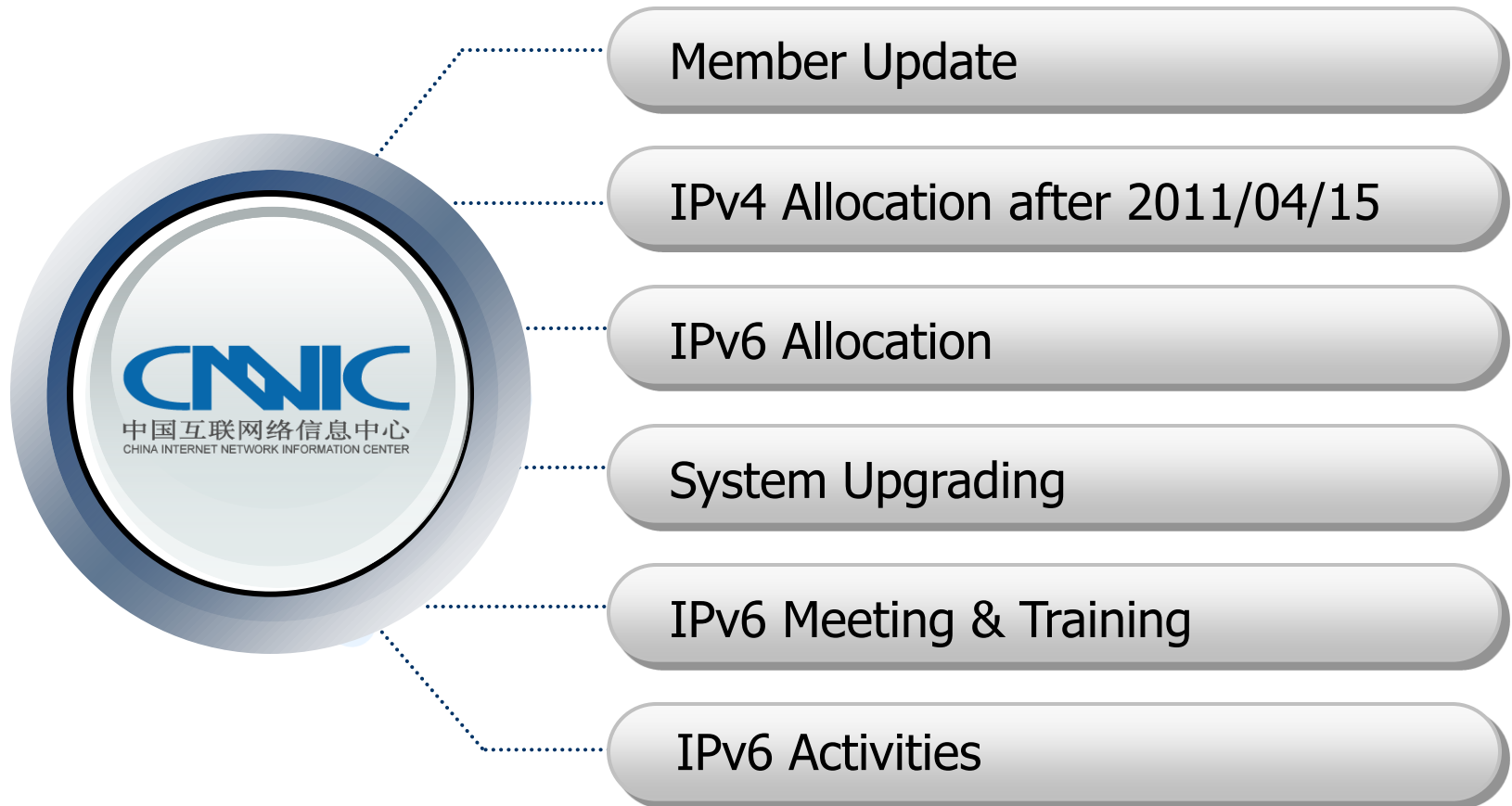


CNNIC Allocation and IPv6 Activities Update

Jessica Shen

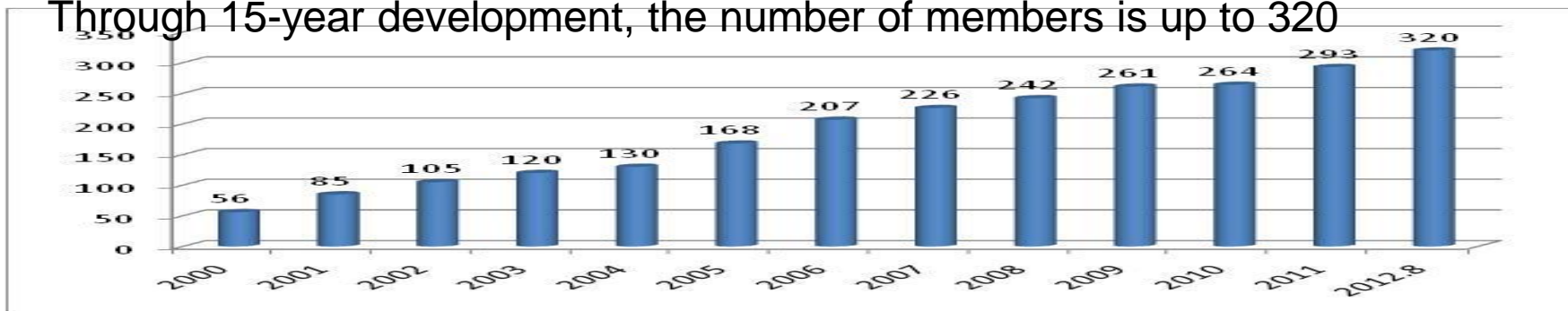
NIR SIG, APNIC 34, Phnom Penh, Cambodia





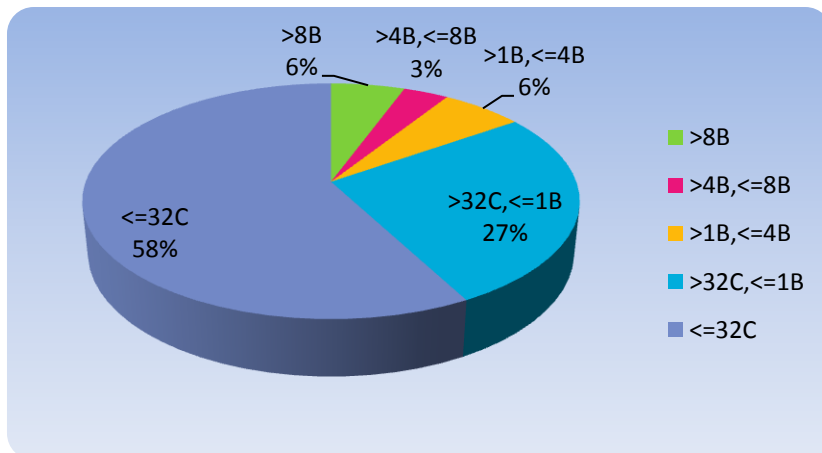
Member Amount

Through 15-year development, the number of members is up to 320



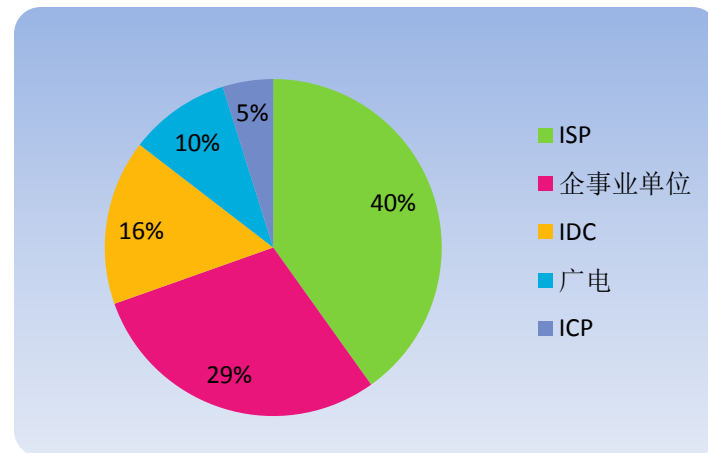
Member Scale

Members who hold addresses under 1B are majority (85%)



Member Type

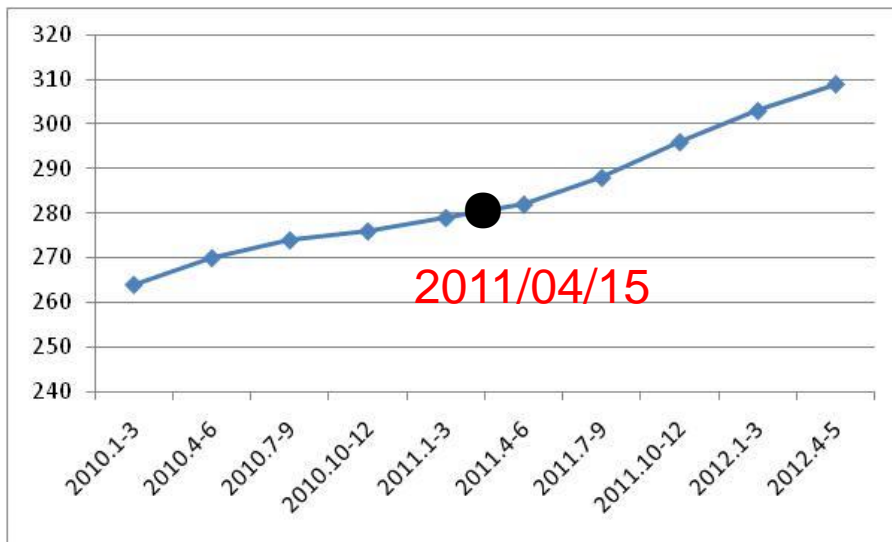
Covers ISP, IDC, ICP and enterprises



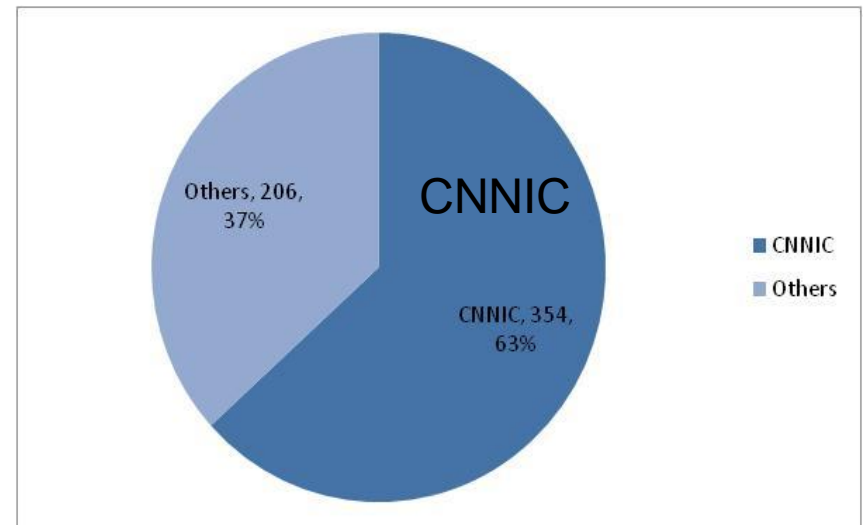
On 15th, April, 2011, APNIC announced IPv4 depletion, which is a big event for China Internet

What Happened after that?

■ Members increase since then

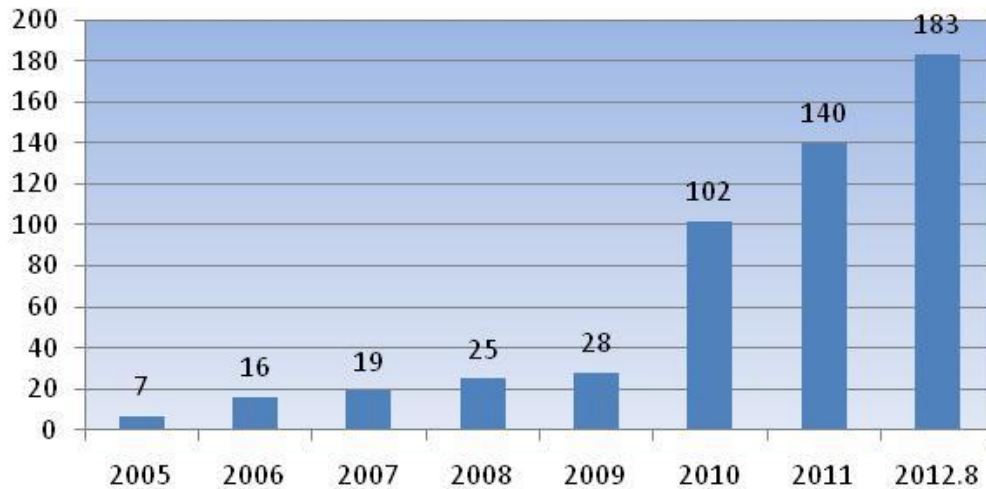


■ CNNIC has allocated 354 /24s , accounts for 62.1% of that of China

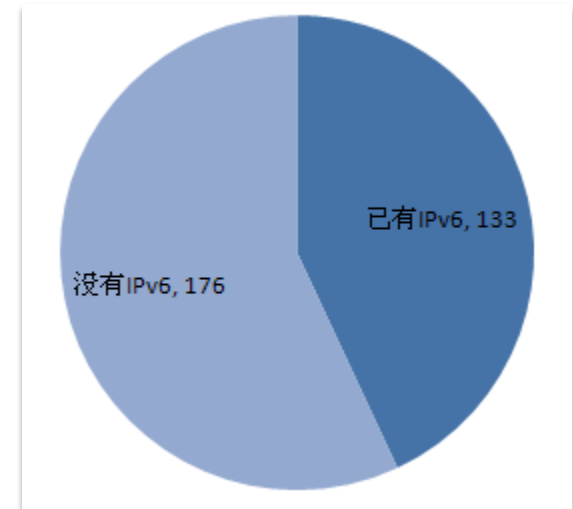


■CNNIC has allocated 183 /32s IPv6 blocks (1 /28 , 1 /29 , 1 /31 , 157 /32s)

IPv6/32s



■43% of the whole members have got IPv6 addresses



■IPv6 requests

- small block (/32)
- large block(>/32)

IPv4 customers & 2-year plan

■ Allocation System 2011.8-2012.3

- make address management more efficiently and exactly,
- increase system safety, add new statistic function



■ Member Resource Management System 2011.8-2012.3

- facilitate member operation, more friendly interface



Time: 6th, June, 2012 – World IPv6 Launch

■ IPv6 Pilot Center Launch

- build up a platform for members to test and use IPv6
- provide access and application services



■ IPv6 Task Force was set up

- IPv6 technique exchange, experience sharing, project cooperation...
- mailing list, seminar
- 48 people jointed on site



➤ IPv6 Presentations given by representatives from IP Registry, carrier, content provider, CNGI member.

■ Thanks Sanjaya to give a wonderful welcome speech

■ Wendy Zhao chaired the meeting

■ APNIC IPv6 allocation and policy update

■ BAIDU & Tencent , the leading ICP in China, IPv6 deployment state and concerns

■ China Telecom, China Mobile, Cernet, CSTNET, the major carriers in China, shared their network deployment state



Time: 26th, July, 2012

Local Host: Internet Society of Guangdong Province

Resource Update:

Update IP policy, IPv4 Request under final /8 ,
IPv6 request

Training contents:

- 01** IPv6 Development State
- 02** IPv6 Header Format
- 03** IPv6 Addressing
- 04** ICMPv6 Protocol
- 05** Underlying and upper-layer protocol's support for IPv6
- 06** IPv6 Transition



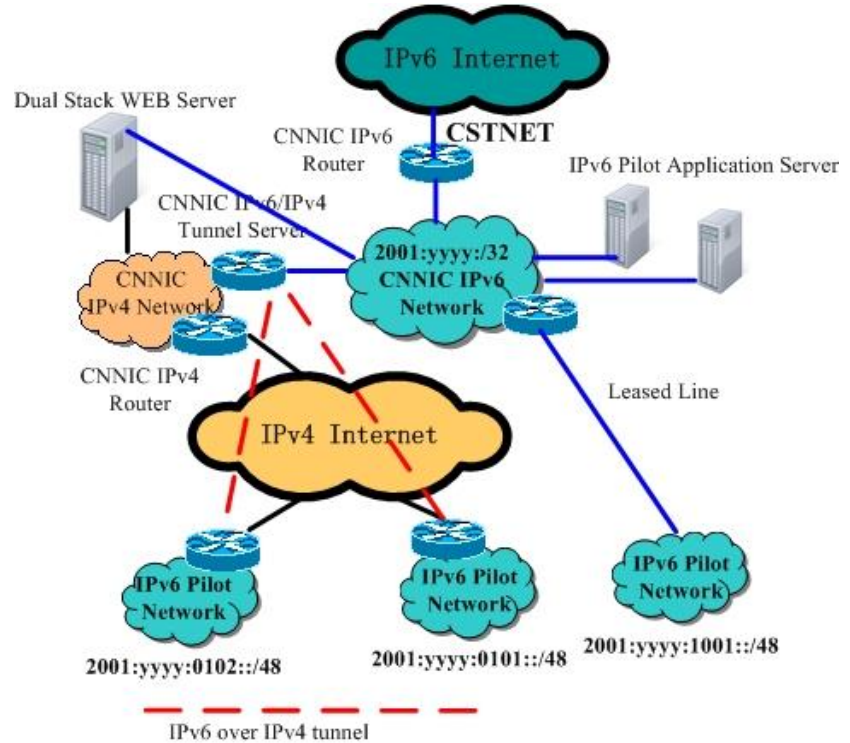
By Network Information
Center, BUPT

■ IPv6 Pilot Network Services

- Tunnel
- Leased Line

■ IPv6 Application Pilot Services

- Testing & Staging
- Application migration guide
- Development & testing tools
- IPv6 applications:
 - Audio/Video
 - IPv6 enabled Webcam
 - IPv6 enabled Websites



www.6pilot.cn



■ Recently Applied

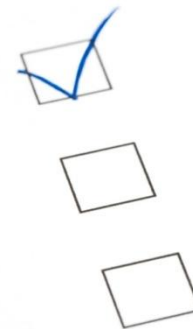
- CNGI Special Research on Information Security
“IPv6 Address Management Standard”
- CNGI Special Research on Internet Industries
“Evaluation on IPv6 Readiness of Networks and Web Sites”

■ In Progress

- Cisco Research Fund “Integrated IPsec Security Association Management with DHCP”
- Ministry of Science and Technology 2012 Reserve Item “IPv6 Transition Oriented Research on Management System and Demonstration Applications”

■ Accomplished

- Consulting Project “Rules for Coding the IPv6 address”
 - Security
 - Accountability
- Consulting Project “IPv6 Transition Planning”
 - Foreign & Domestic Status Quo of IPv6 Transition
 - Key Technologies for IPv6 Transition
 - Fundamental Problems during IPv6 Transition
 - Suggestions on IPv6 Promotion



THANKS!

shenzhi@cnnic.cn

中国信息社会重要的基础设施建设者、运行者和管理者

北京市海淀区中关村南四街四号中科院软件园

邮编: 100190

www.cnnic.cn