CNNIC UPDATE

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CNNIC
中国互联网络信息中心
CHINA INTERNET NETWORK INFORMATION CENTER

Outline

Internet Development in China

Membership Growth

IPv4 allocation

IPv6 allocation

AS allocation

RPKI in CNNIC

China Internet Museum

Internet Development in China

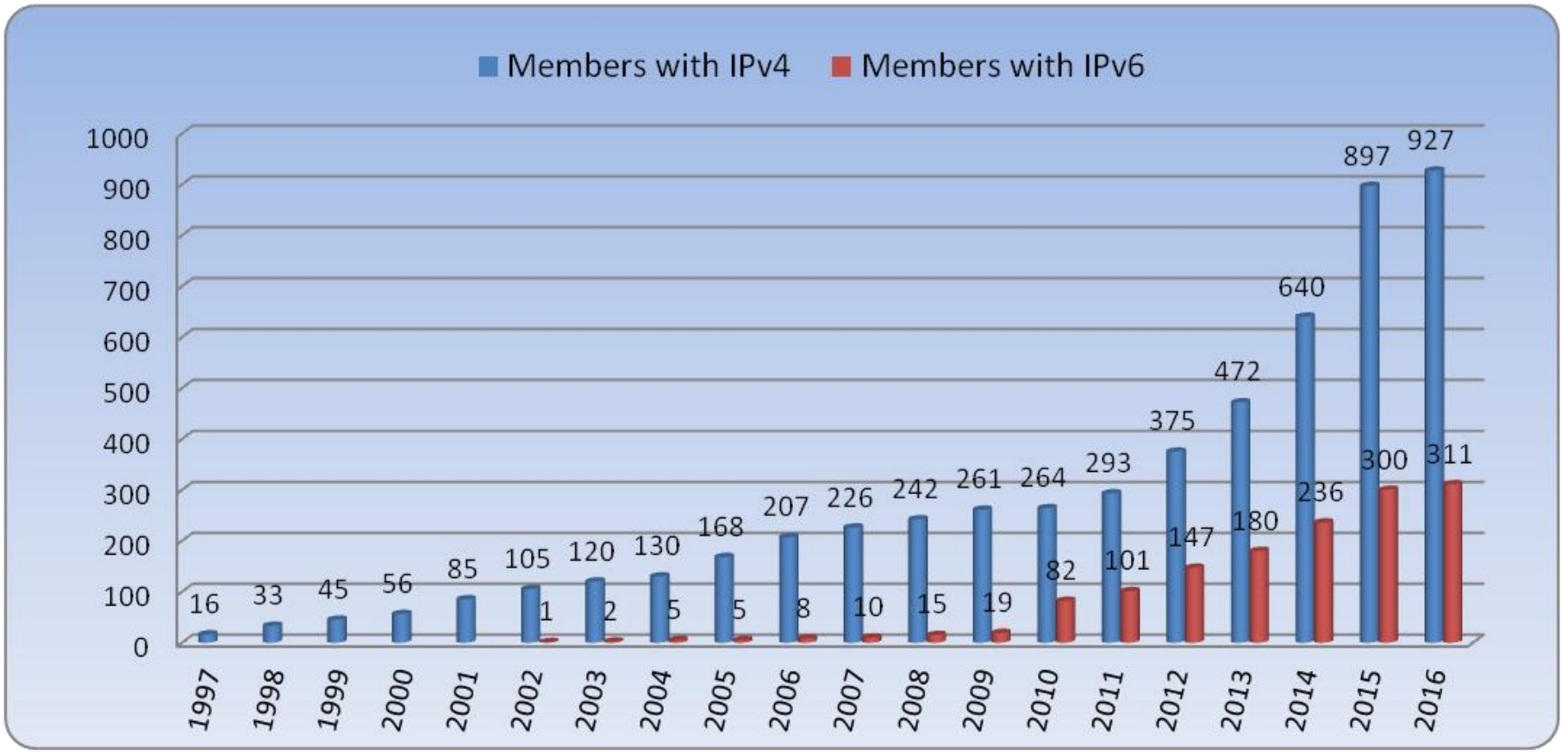
- Internet users 688 million, Internet penetration rate 50.3%,

- Mobile Internet users 620 million,90.1% of the total Internet users

Membership Growth

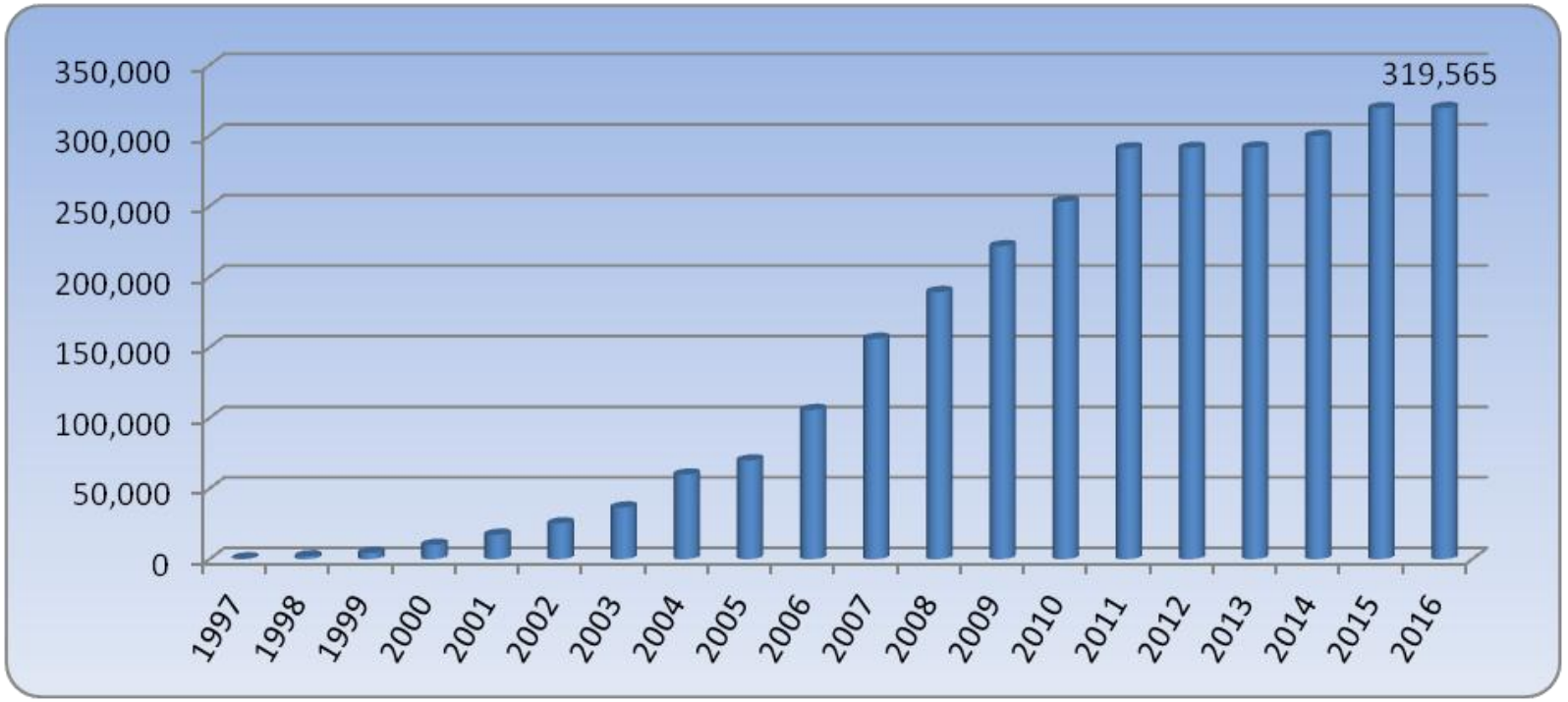
- 927 CNNIC IP members, by the end of January 2016

Membership with IPv4 VS IPv6



IPv4 Allocation

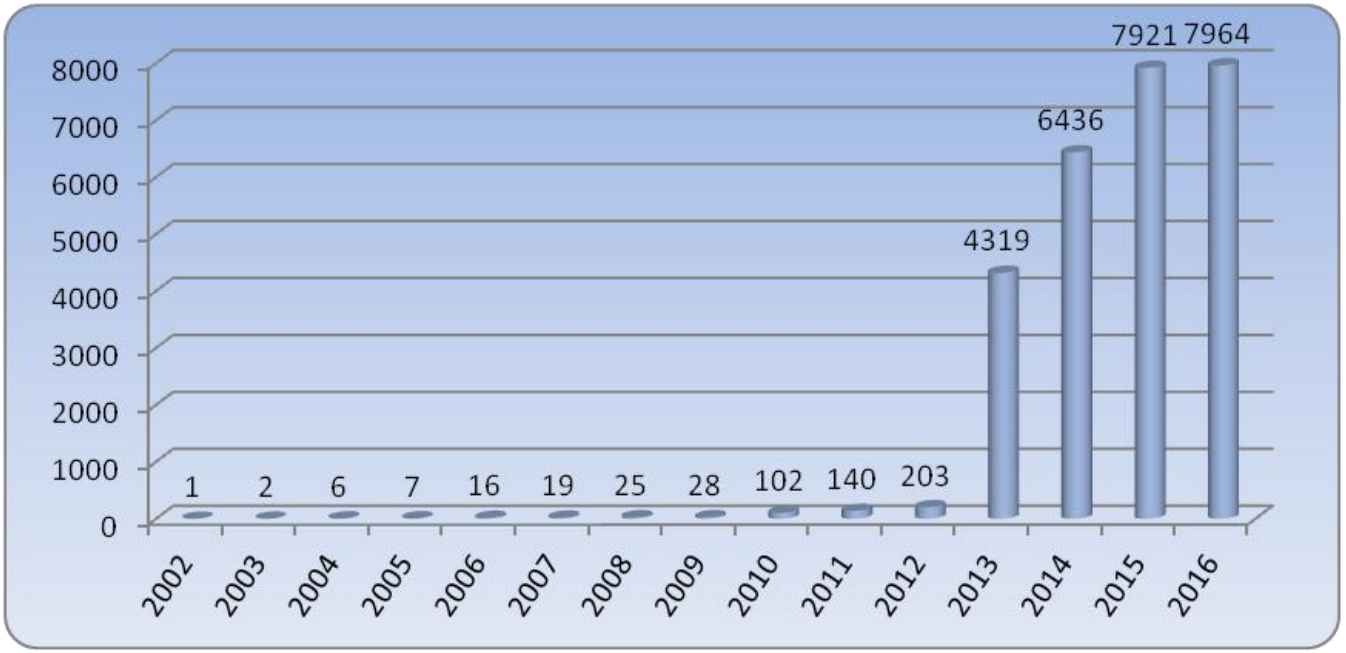
- CNNIC has allocated319,565/24s IPv4 addresses



- /21（/22+/22）IPv4 allocations rapidly increase

IPv6 Allocation

- CNNIC has allocated more than 7,900 /32 IPv6 blocks



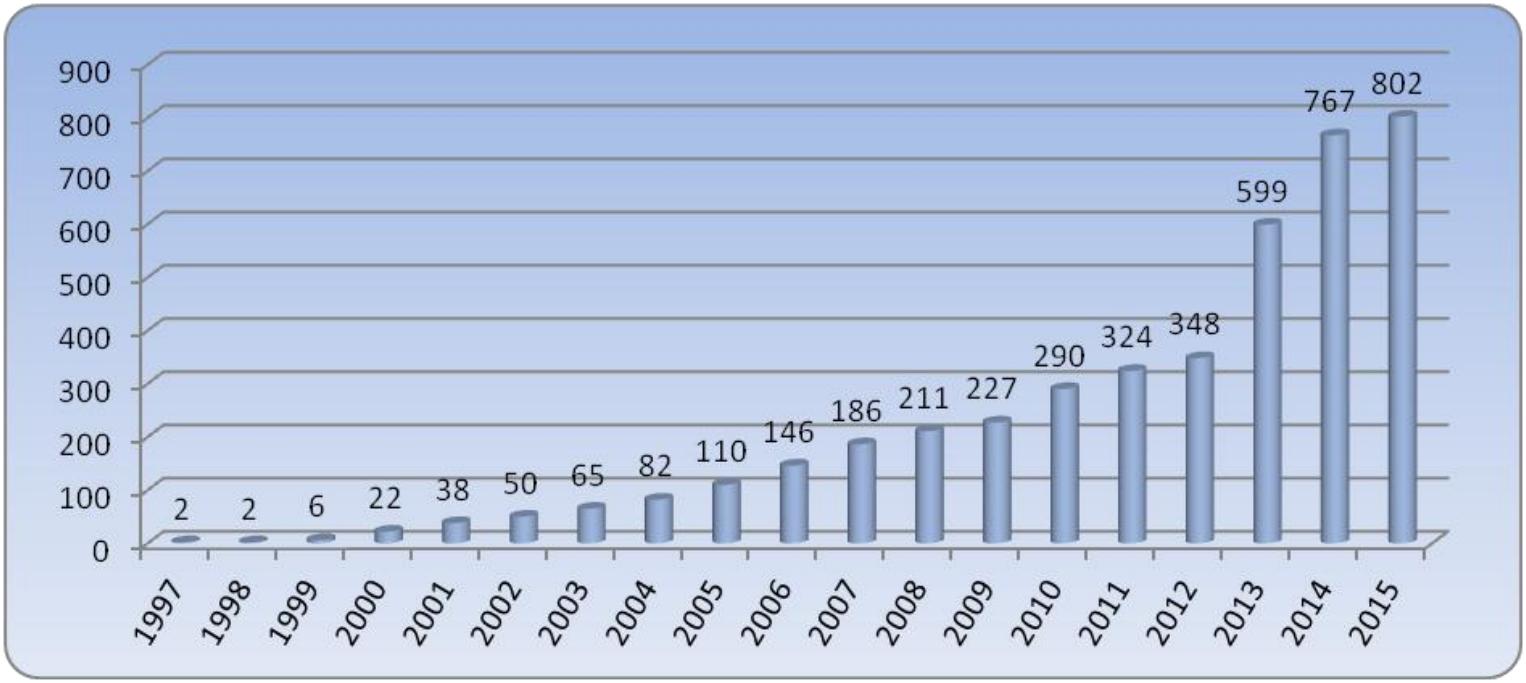
- large IPv6 allocations in 2015

-Research Institute of Highway Ministry of Transport ,for the IPv6 transformation of the national highway information system in China

-Ali yun nationwide E-commerce IPv6 project

AS Allocation

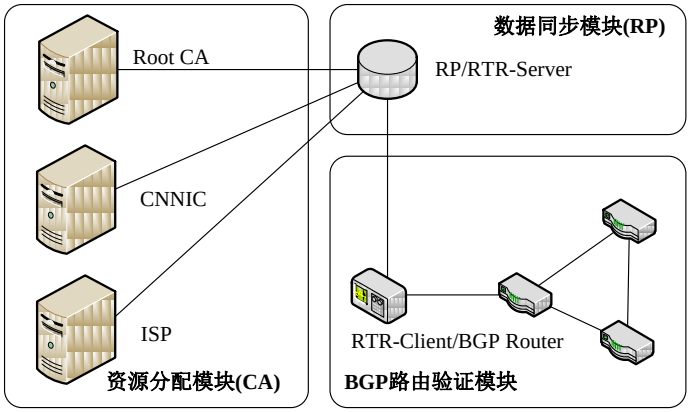
- CNNIC has allocated more than 800 AS numbers



- Provide 2 Byte and 4 Byte AS allocation
- Encourage the use of 4 Byte AS number

RPKI Practices

- Established the RPKI test-bed
- Released the white-paper to guide the research and test of RPKI in China



- Carried out a research on designing the optimized Rsync protocol to meet the scalability and efficiency requirements of RPKI data synchronization

- Deployed RPKI CA and RP system in 2015.6
- Released RPKI pilot platform in 2015.12

RPKI Practices (ongoing)

- leading the standardization of RPKI in China
- Designing the local-safeguard architecture to support the actual deployment of RPKI in CNNIC
- Pushing deployment risk analysis in IETF

China Internet Museum

中国互联网博物馆
China Internet Museum

http://www.internet.cn

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峥嵘网事 慧联未来

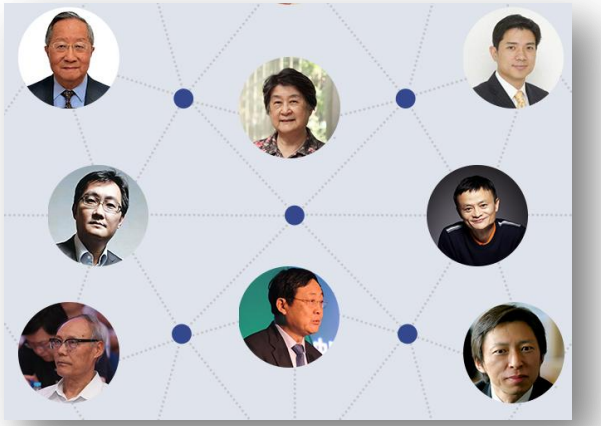
Stay Connected Be Enlightened

The first www server in China

In May, 1994, the first web server was setup in the Institute of High Energy Physics of Chinese Academy of Sciences. It used the Linux operating system, and ran 24 hours a day. This was the first server of the World Wide Web, where the first set of web pages was published.

The First Router in China

The first router independently developed by China was born at the Computer Network Information Center of Chinese Academy of Sciences at the end of 1992.



THANKS!

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