

CNNIC UPDATE

Zhen Yu & Zhiwei Yan

NIR SIG, APNIC 44, Taichung





Outline

Internet Development in China Membership Growth IPAS allocation 2017 IP Alliance Conference RPKI in CNNIC





Internet Development in China



Internet users 751 million, Internet penetration rate 54.3%,

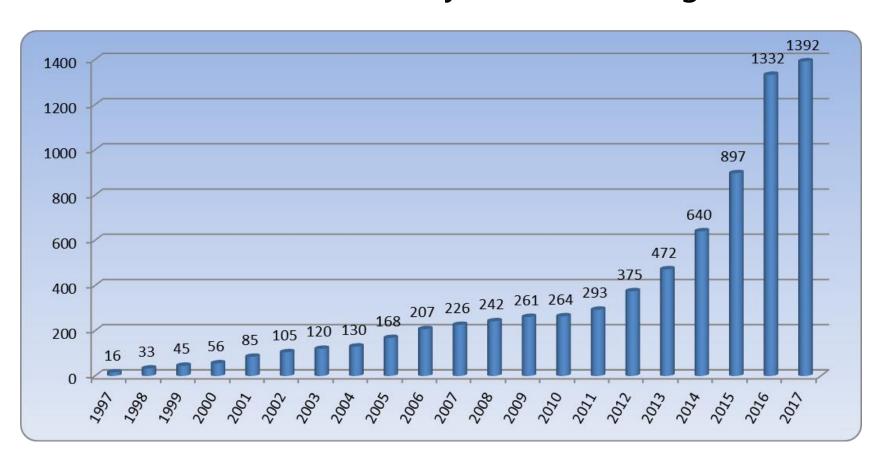


■ Mobile Internet users 724 million,96.3% of the total Internet users



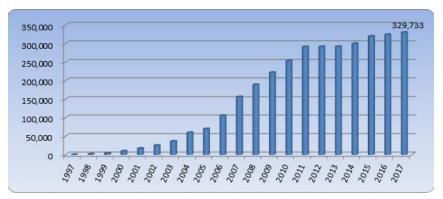


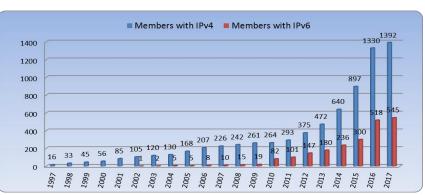
■1,392 CNNIC IP members, by the end of August 2017

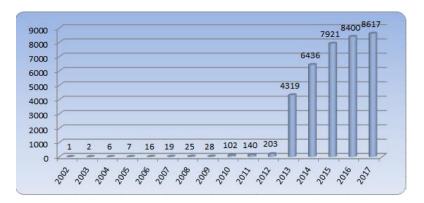


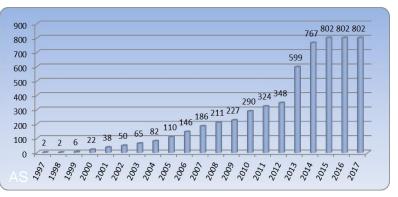


CNNIC has allocated 329,733 /24s IPv4 addresses, 8,617 /32 IPv6 blocks and 802 AS numbers











2017 IP Alliance Conference

■2017 IP Alliance Conference on 13th June in Kunming

















CNNIC Annual Conference 2017

■IPv6 Workshop in Kunming

















Service

■In the IP Alliance Meeting 2017, we released the CNNIC- RPKI service.

Currently, it works well but has no active child user yet:







Service...

Special thanks to:

Randy Bush

George Michaelson

<u>Taiji</u> Kimura

Rob Austein

Tom Harrison

.....

- Compatibility between Up/Down CA systems.
- ■Enhance training and outreach.



Localization

~2015, we started to introduce the basic RPKI RFCs to China community.

- RPKI Architecture
- Repository Structure
- to BGP Router protocol
- X.509-Resource certificate
- Guestbusters records
- Provisioning protocol
- Trust anchor locator
- Manifests
- BGPsec
-









Research

Z. W. Yan, Y. Fu, et.al., Problem Statement and Considerations for ROAs issued with Multiple Prefixes, draft-yan-sidrops-roa-considerations-00, August 2017.

1	The total number of ROAs		The number of ROAs with multiple prefixes		The number of prefixes		The average number of prefixes in each ROA
1	7166	3307	3859	Ī	37367	3859	9.68

+	ROA types		2-10		51-100	ROA with >100 prefixes	Total
1	The number of ROAs	- -	3263	496	60 I	40 I	3859 I
1	The ratio of ROAs	 	84.56%	12.85%	1.55% 	1.04% 	100.00%
1	The number of	1	12442	10365	4125 	10435 	37367
1	prefixes The ratio of		33.30%	27.74%	 11.04% 	27.93% 	100.00%

*Date: July 4, 2017

Safeguard of RPKI:

Avoiding potential risks brought by this security solution.



yuzhen@cnnic.cn yanzhiwei@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

www.cnnic.cn

邮编: 100190