



TWNIC Update

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APNIC 43

Outline

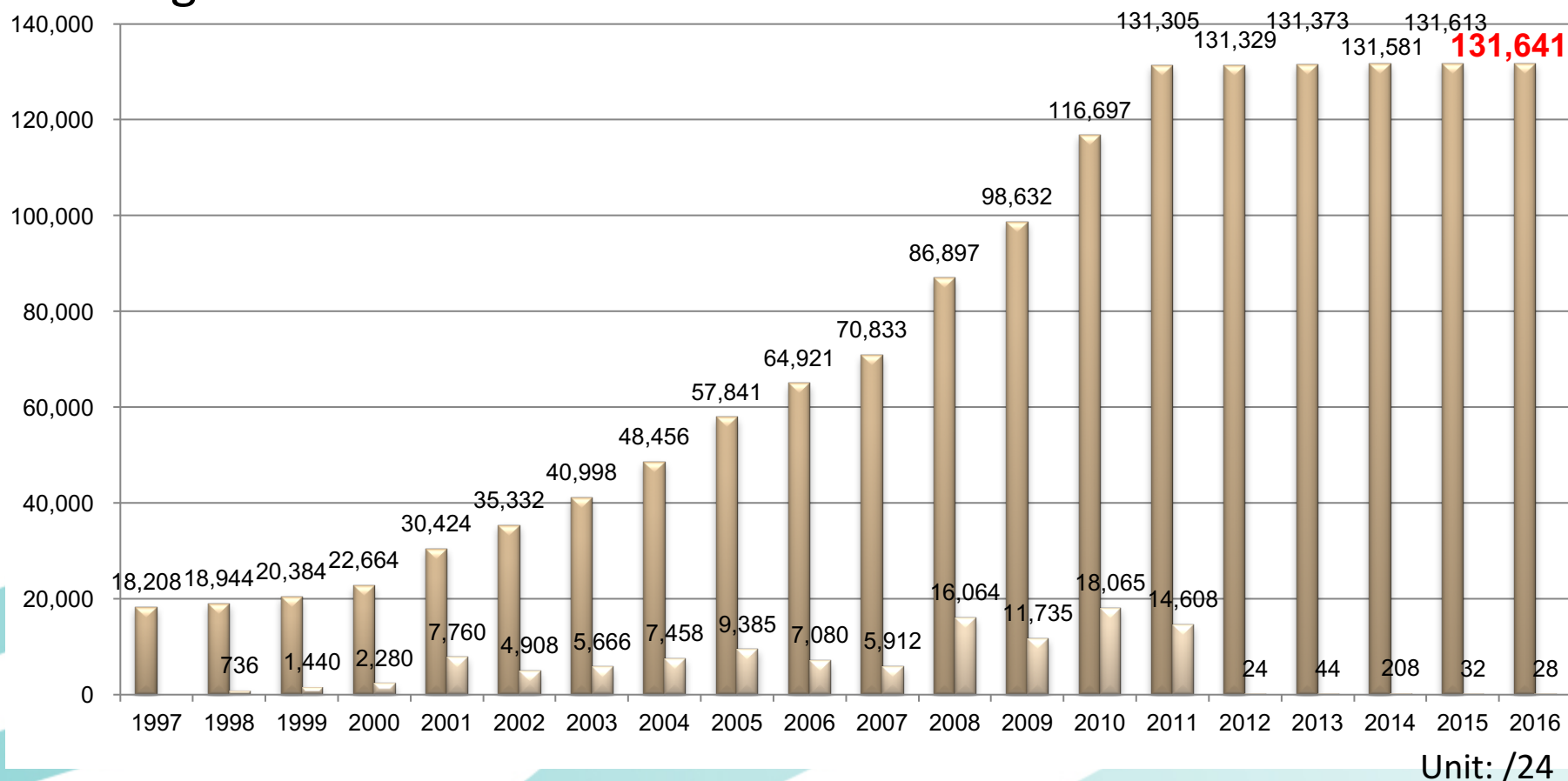
- Statistics of TWNIC's IP members
- TWNIC's activities and training programs
- Status of IPv6 upgrade of governmental agencies in Taiwan
- Conclusions & future works

Statistics of TWNIC's IP Members

代理發放單位		代理發放單位	
1	TWNIC	22	台灣基礎開發科技股份有限公司
2		23	中嘉和網股份有限公司
3		24	世新有線電視股份有限公司
4		25	台灣恩悌悌股份有限公司
5		26	大台北寬頻網路股份有限公司
6		27	易達通網路系統有限公司
7	太聯科技股份有限公司	28	數位通國際網路股份有限公司
8	遠傳電信股份有限公司	29	士無異實類股份有限公司
9	宏遠電訊股份有限公司	30	
10	向邦網路科技股份有限公司	31	
11	博訊科技股份有限公司	32	
12	和宇寬頻網路股份有限公司	33	
13	協志科技股份有限公司	34	
14	新世紀資通股份有限公司	35	
15	新台省公司	36	
16	新台省公司	37	
17	新台省公司	38	
18	新台省公司	39	
19	新台省公司	40	
20	台灣碩網網路娛樂股份有限公司	41	
21	台灣碩網網路娛樂股份有限公司	42	
		43	銓城有限公司
		44	威達雲端電訊股份有限公司
		45	安源通訊股份有限公司
		46	大眾電信股份有限公司
		47	大同電信股份有限公司
		48	威邁思電信股份有限公司
		49	全球一動股份有限公司
		50	洞瀾有線電視股份有限公司
Service Types		# of TWNIC's Members	
Co-location/IDC		33	
FTTx		14	
ADSL		4	
Cable Modem		18	
WLAN		2	
3G/3.5G		5	
4G(LTE)		5	

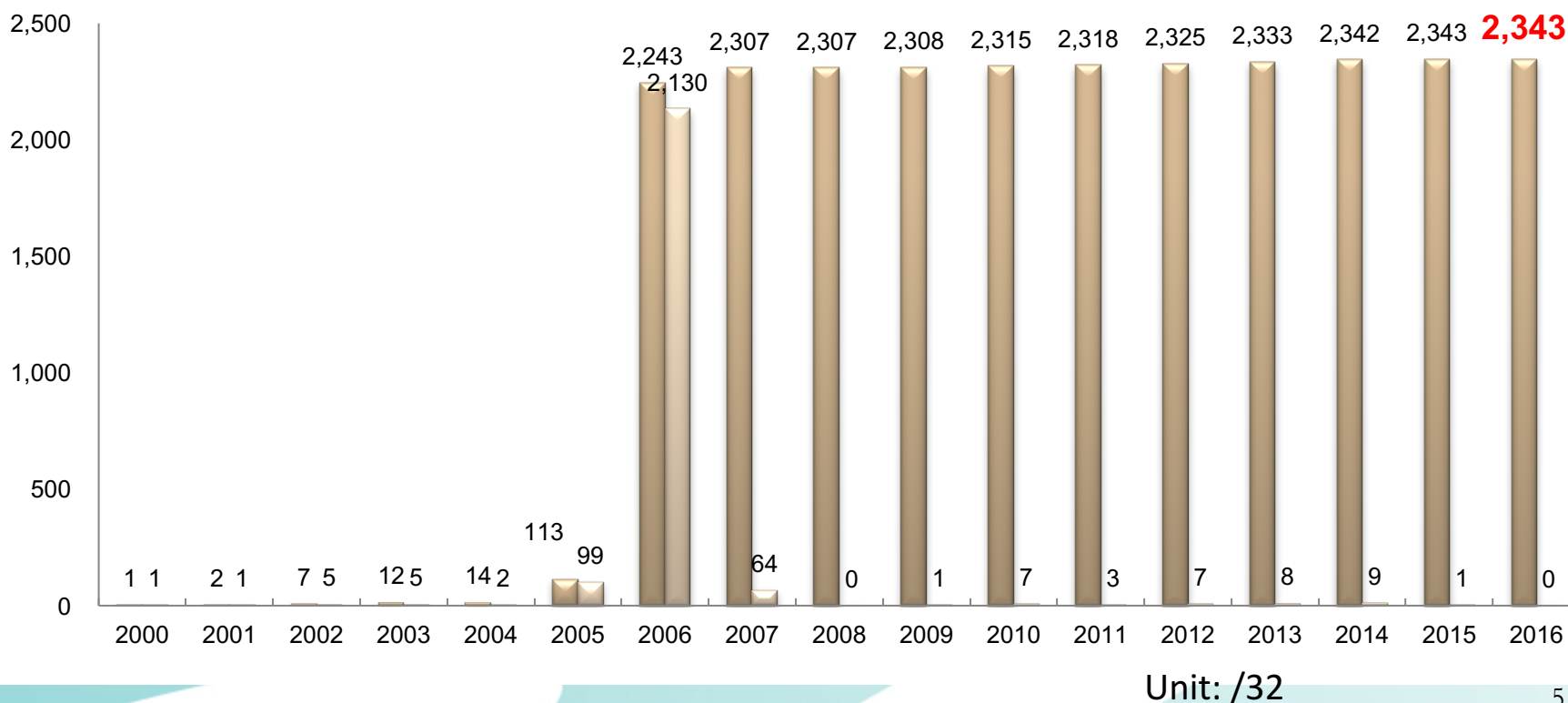
IPv4 Address Allocation

- TWNIC has allocated 131,641 /24s IPv4 addresses
- The numbers of small allocations are growth after final /8 stage.



IPv6 Address Allocation

- TWNIC has allocated 2,343/32s IPv6 addresses
- Most TWNIC IP members have obtained IPv6 addresses.



2016 Taiwan Internet Forum

2016 Global IPv6 Summit in Taiwan
27th TWNIC IP Open Policy Meeting
2016 TWNOC
2016 Network Security Seminar
2016 Taiwan Youth Internet Forum

12-15 December, 2016
NTUH International Convention Center, Taipei, Taiwan

- Time: Dec 12-15, 2016
- Keynote speech:
Herman Rao, Executive Vice President of FarEastTone and
Geoff Huston, Chief Scientist of APNIC
- Session topics include IPv6 Upgrade in Government Agencies & ISP
Collaboration Trends, Network Management Technologies, IPv6
Security Workshop, etc.
- Website: <http://www.ipv6.org.tw/summit2016/>



TWNIC's IPv6 Training Programs in 2016

- Period(Aug. to Dec.)

<http://lesson.ipv6lab.tw/>



	Courses	Times	Attendees
Introduction Program	IPv6 Routing Settings	8	248
	DHCPv6 Server	8	250
	IPv6 Wi-Fi Router Settings	8	252
Hands on Program	Windows Server IPv6	8	244
	Linux Server IPv6	8	248
	Total	40	1242

IPv6 Upgrade of External Network Services

- Till Dec. 2016, 4,420 network services of governmental agencies have been upgraded to IPv6.
- 4,338 (98.15%) of upgraded services are reachable by IPv6.



IPv6 Upgrade of Governmental Agencies' Office Internet Access Service

- Aims
 - ❑ Most governmental agencies' users can access Internet IPv6 services before 2018.
- Stage in 2017
 - ❑ More than 1,100 governmental agencies attend this program to provide the IPv6 upgrade plan for office internet access service.
 - ❑ TWNIC provides the documents of the upgrade plan template and the IPv6 implementation guide for all governmental agencies.
 - ❑ TWNIC also cooperate with 13 IPv6 consulting teams to help governmental agencies upgrade IPv6.

Conclusions & future works

- All governments' public network services had finished to be upgraded to IPv6 in Taiwan. We continuously promote more than 1,100 government agencies' Office Internet Access to upgrade to support IPv6 this year.
- We will continuously hold IPv6 training courses and IPv6 activities this year.
- Welcome you all to attend the IPv6 readiness measurement BoF this afternoon.

Thank You

