



# TWNIC Update

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APNIC 44

# Outline

- Statistics of TWNIC's IP members
- TWNIC's activities and training programs
- Conclusions & future works

# Statistics of TWNIC's IP Members

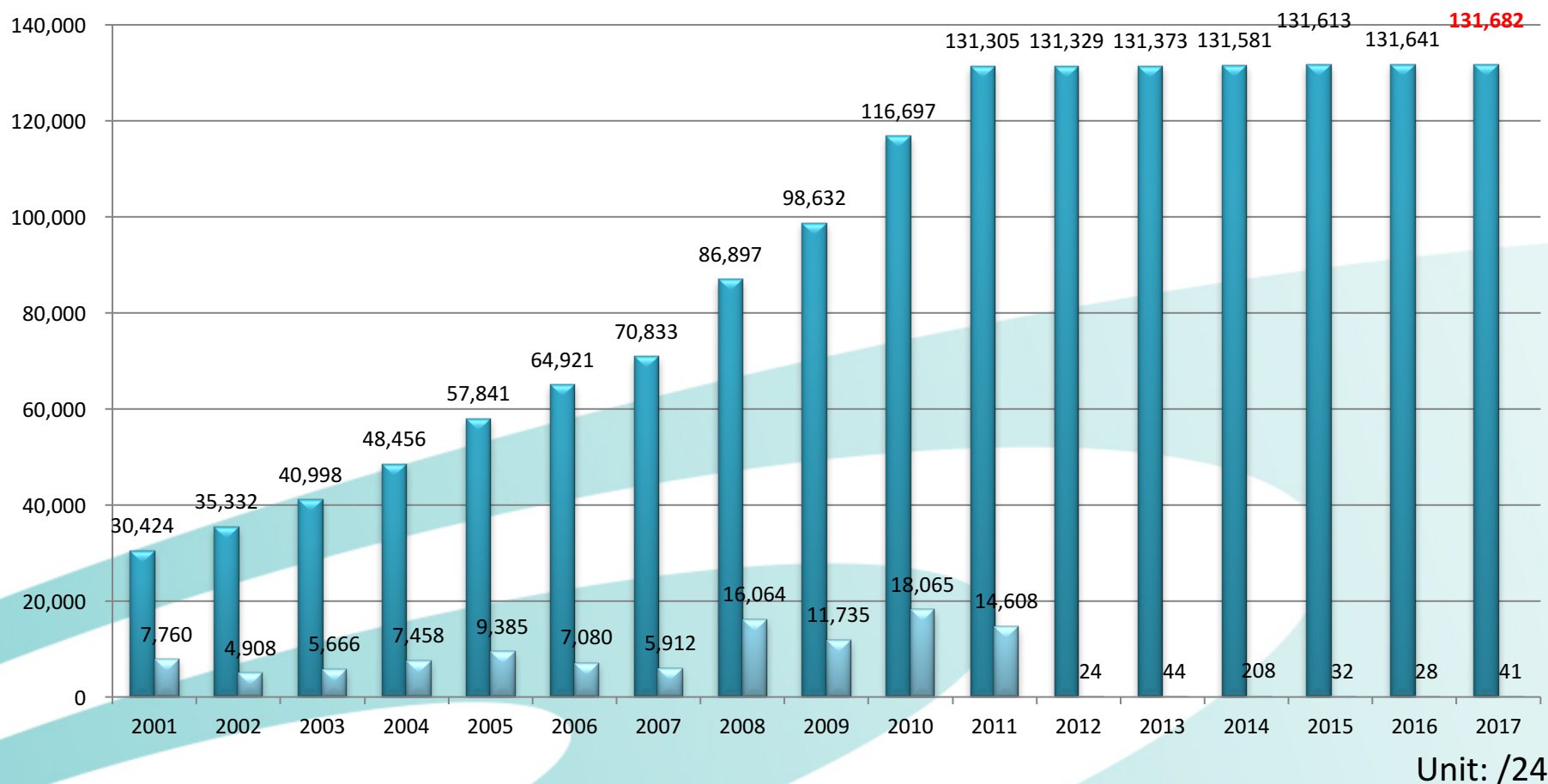
TWNIC

TWNIC's LIR:  
63

代理發放單位	代理發放單位	代理發放單位
1	22 台灣基礎開發科技股份有限公司	43 筌城有限公司
2	23 中嘉和網股份有限公司	44 威達雲端電訊股份有限公司
3	24 世新有線電視股份有限公司	45 安源通訊股份有限公司
4	25 台灣恩悌悌股份有限公司	46 大眾電信股份有限公司
5	26 大台北寬頻網路股份有限公司	47 大同電信股份有限公司
6	27 易達通網路系統有限公司	48 威邁思電信股份有限公司
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	49 全球一動股份有限公司
8 遠傳電信股份有限公司	29 大無異寬頻股份有限公司	50 洞濶右線雲組股份有限公司
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	36	
16	37	
17	38	
18	39	
19	40	
20 台灣	41	
21 台灣碩網網路娛樂股份有限公司	42	
Service Types	# of TWNIC's Members	
Co-location/IDC	33	
FTTx	15	
ADSL	4	
Cable Modem	19	
WLAN	2	
3G/3.5G	5	
4G(LTE)	5	

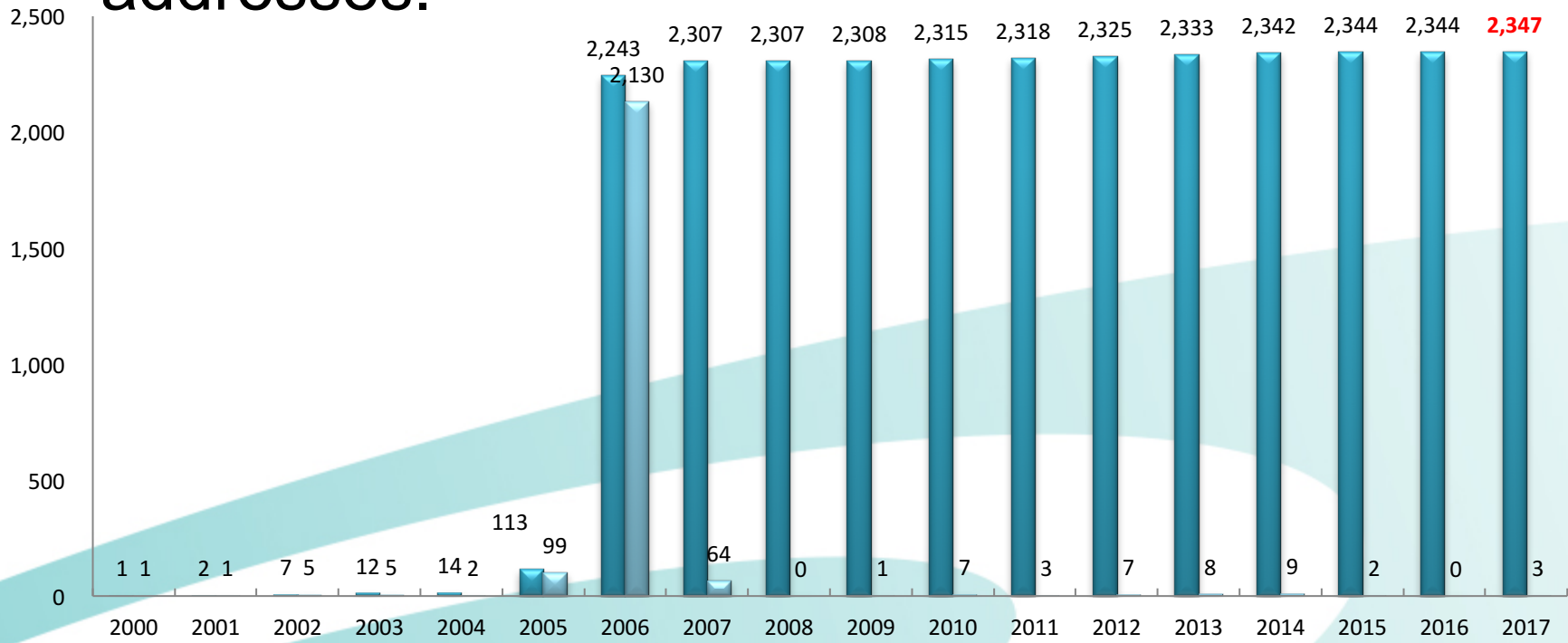
# IPv4 Address Allocation

- TWNIC has allocated 131,682 /24s IPv4 addresses
- The IPv4 application grow slowly these few years



# IPv6 Address Allocation

- TWNIC has allocated 2,347 /32s IPv6 addresses
- Most of TWNIC IP members have obtained IPv6 addresses.



Unit: /32

# 2017 TWNOG & 28<sup>th</sup> TWNIC IP OPM

- Time: June 21-22, 2017
- Keynote speech speaker:
  - Hung-Tsan Ma, General Manager, Data Communications Branch, Chunghwa Telecom Co., Ltd.
- Session topics include Development and Application Trend of IPv6 Network Service, Security Best Practices for Network Operators, IOT Application Trend and Security Training, etc.
- To see the detail agenda, visit <http://map.twnic.net.tw/28th/>



# TWNIC's IPv6 Training Programs in 2017

- Period(Aug. to Sep.)

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



	Courses	Times	Attendees
Introduction Program	IPv6 Routing Settings	2	80
	DHCPv6 Server	2	76
	IPv6 Wi-Fi Router Settings	2	76
Hands on Program	Windows Server IPv6	2	60
	Linux Server IPv6	2	60
	Total	10	352

# Taiwan IPv6 Deployment in Governmental Public Wi-Fi Service



- Some hotspots of Taiwan governmental public Wi-Fi service, iTaiwan, have supported IPv6 and will expand this IPv6 service this year.
- Three stages for the upgrade of iTaiwan service to support IPv6:
  - Stage 1. Service Trial. It is implemented in the building of Ministry of Transportation and communications, that was upgraded 20 hotspots in 2015.
  - Stage 2. Small scale service. It is implemented in total 321 hot spots on sightseeing spots and transportation stations in 2016.
  - Stage 3. Large scale service. It plan to be implemented in 5,965 hot spots in Taiwan. The coverage rate is estimated to be nearly 73% of hot spots to support IPv6 in 2017.



# Conclusions & Future Works

- TWNIC have 2 more members this year.
- iTaiwan is a free and convenient public Wi-Fi Service, the number of supporting IPv6 of iTaiwan hotspots is around 4,284 in August. Average users in August is 124,015 per day, we believe It's a good way to provide IPv6 access service to end user.
- We will continuously hold IPv6 training courses and IPv6 activities this year.
- Welcome to attend the IPv6 readiness measurement BoF tomorrow.

# Thank You

