



TWNIC Update

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APNIC 53

Outline

- Statistics of TWNIC's IP members
- TWNIC's activities and training programs
- TWNIC RPKI Update
- Conclusions & Future Works

Statistics of TWNIC's IP Members

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	笙城有限公司
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	士無里寬頻股份有限公司	50	河潤有線電視股份有限公司
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	新合資通股份有限公司	36			
16	新合資通股份有限公司	37			
17	新合資通股份有限公司	38			
18	新合資通股份有限公司	39			
19	新合資通股份有限公司	40			
20	台灣寬頻通訊顧問股份有限公司	41			
21	台灣碩網網路娛樂股份有限公司	42			

TWNIC

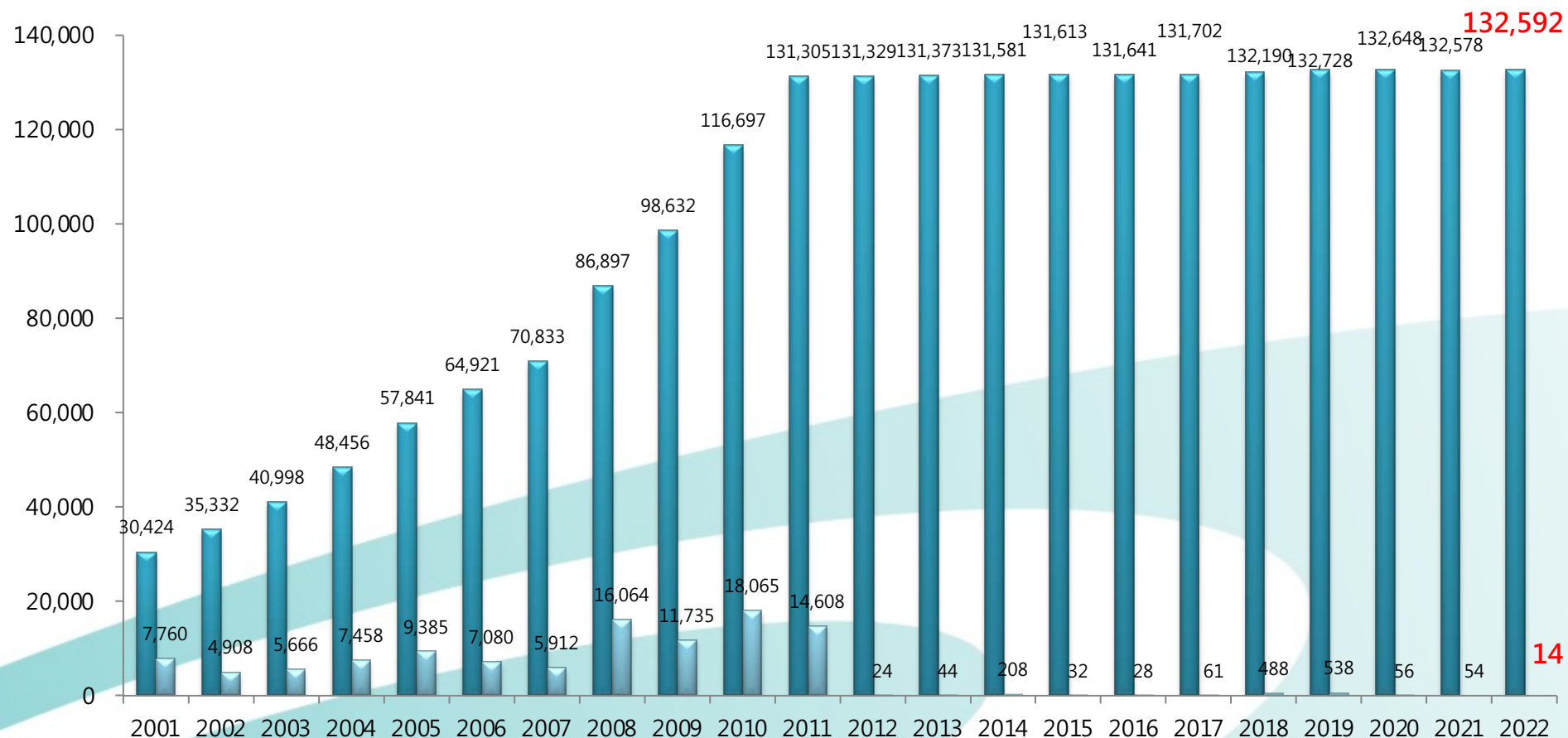
TWNIC's Member: 314

Service Types	# of TWNIC's Members
Co-location/IDC	64
FTTx	18
ADSL	4
Cable Modem	25
WLAN	2
3G/3.5G	5
4G(LTE)	5

IPv4 Address Allocation

- TWNIC has allocated 132,592 /24s IPv4 addresses.

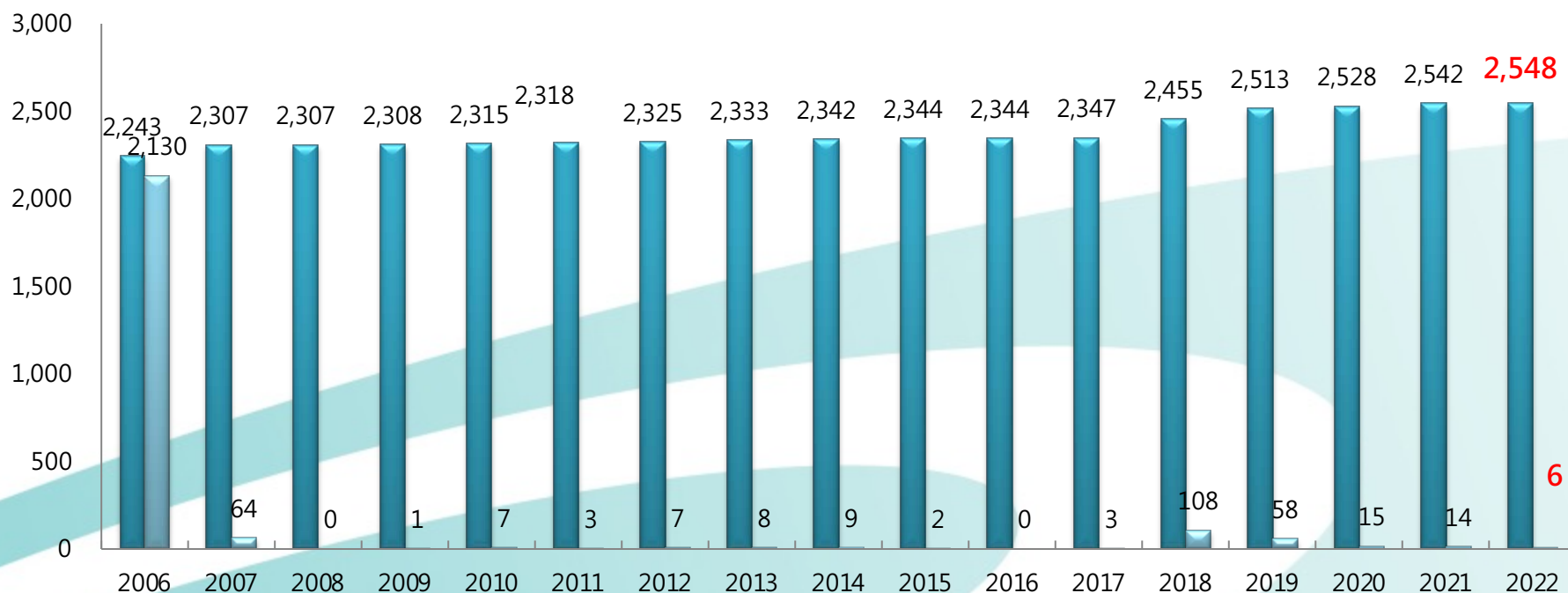
Unit: /24



IPv6 Address Allocation

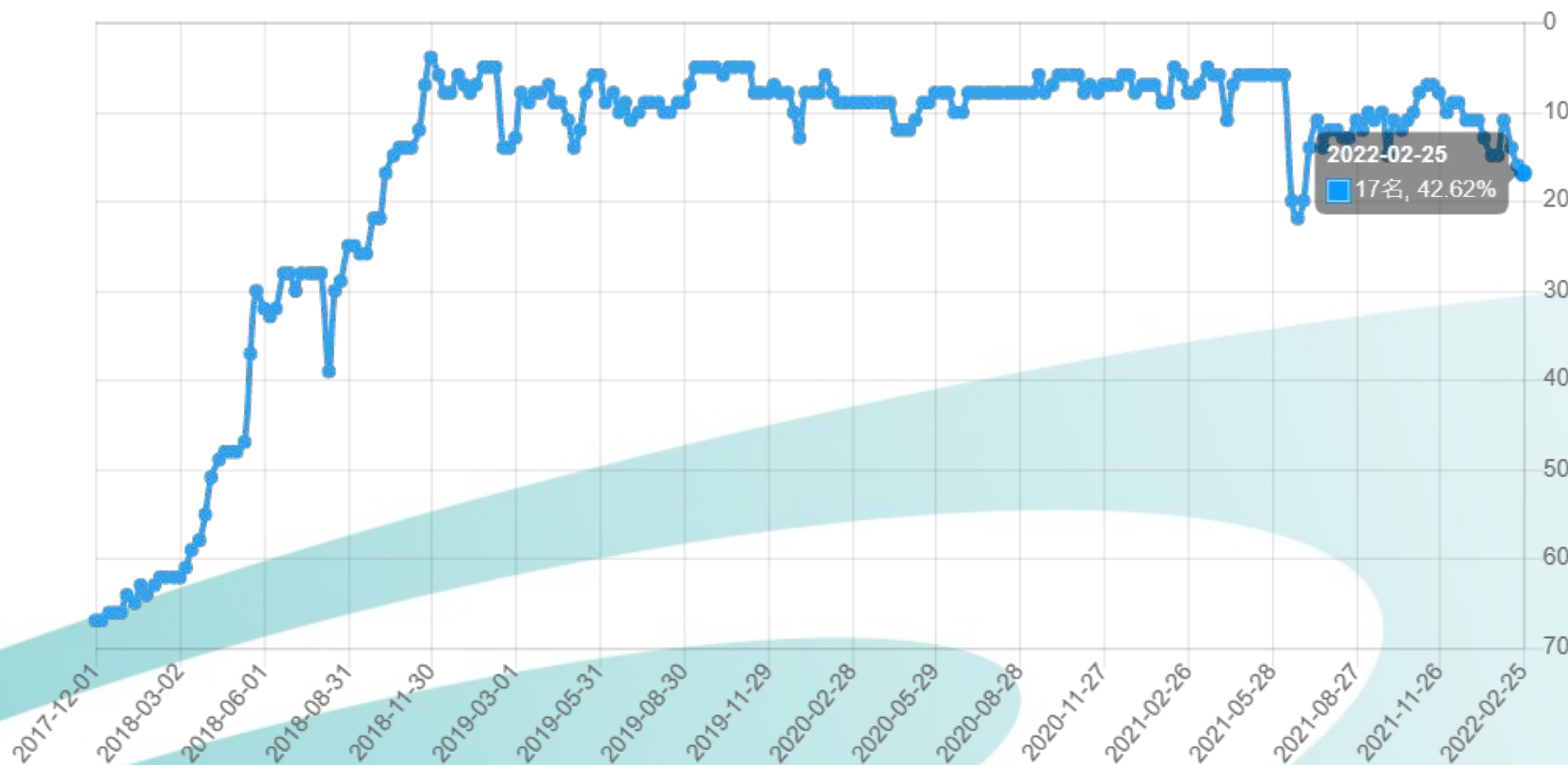
- TWNIC has allocated 2,548 /32s IPv6 addresses.
- Most of TWNIC IP members have obtained IPv6 addresses.

Unit: /32



Taiwan IPv6 User Availability

- Taiwan IPv6 user availability is 0.46% in the end of 2017 and 42.62% in February 2022.
- Taiwan IPv6 Global Ranking: 17



<https://ipv6now.twnic.tw/ipv6/index.html>

36th TWNIC IP Open Policy Meeting

- Time: Oct 6, 2021 Online

- Keynote speech:

- BGP Security Threats and Challenges**

Geoff Huston, Chief Scientist, APNIC

- Challenges of 5G for Smart Applications**

Alex Chien, President of Mobile Business Group, Chunghwa Telecom

- Session topics include Cyber Security SIG, Cooperation SIG, Policy SIG and IPv6 Deployment SIG etc.

- To see the detail agenda, visit <https://opm.twnic.tw/36th/agenda.html>



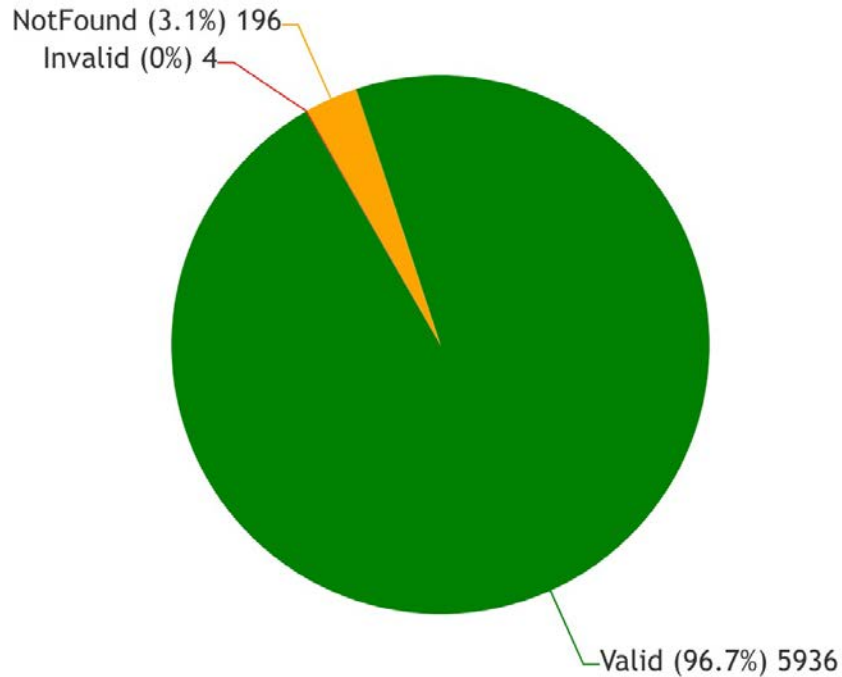
IP Network Communication Training

- We hold 13 IP network communication trainings in 2021.

SN	Location	Date	On-site Attendees	Remote Attendees	Total Attendees
1	Kaohsiung	4/29	41	X	41
2	Yunlin	5/28	X	28	28
3	Taipei	6/09	X	45	45
4	Taipei	7/09	X	41	41
5	Taipei	8/25	X	36	36
6	Taipei	9/08	X	48	48
7	Yunlin	9/24	X	27	27
8	Taipei	10/22	X	44	44
9	Kaohsiung	11/05	41	17	58
10	Yunlin	11/17	18	30	48
11	Kaohsiung	11/26	36	18	54
12	Kaohsiung	12/24	39	20	59
13	Yunlin	12/29	24	24	48
Total			199	378	577

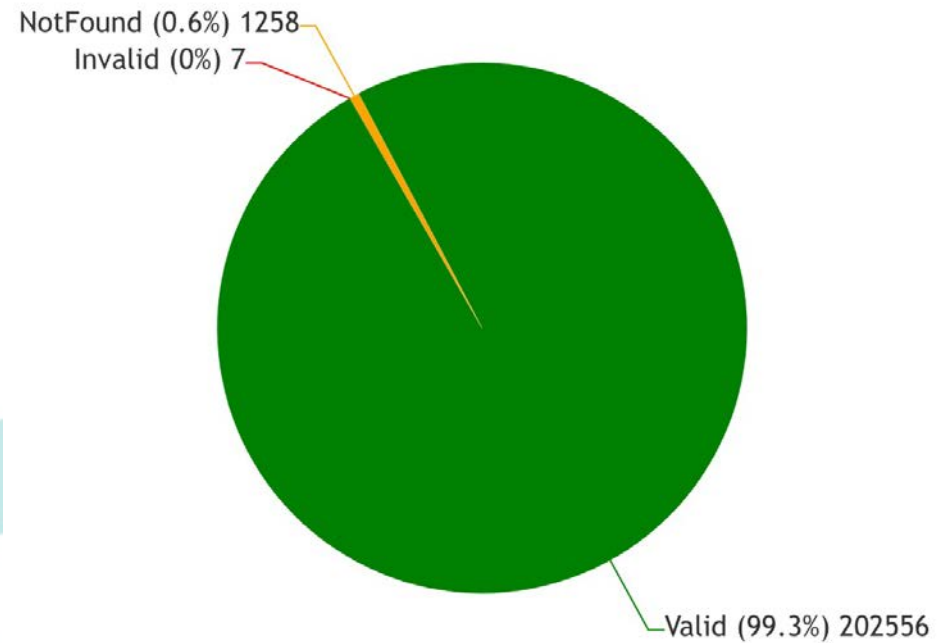
TWNIC RPKI Service

Number of Routing: IPv4 Valid Prefix 96.7%



Total: 6136

Number of Class C: IPv4 Valid Space 99.3%



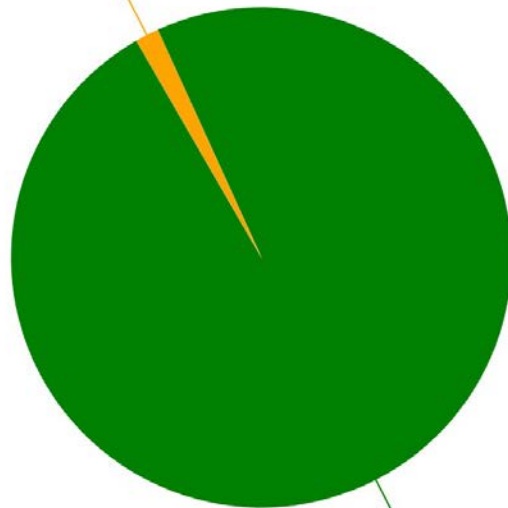
Total: 203821

date : 2022/2/22

TWNIC RPKI Service

Number of Routing: IPv6 Valid Prefix 98.4%

NotFound (1.5%) 12

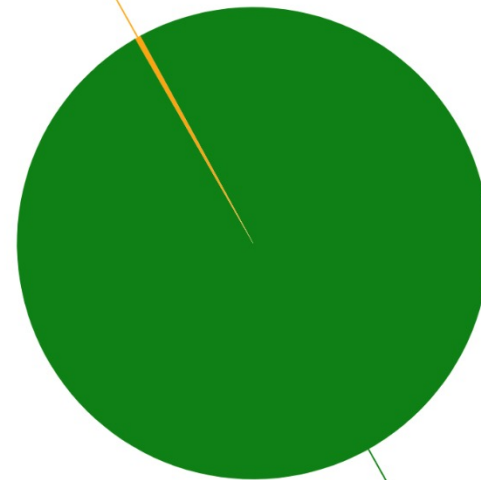


Valid (98.4%) 763

Total: 775

Number of /64: IPv6 Valid Space 99.5%

NotFound (0.4%) 42949804032



Valid (99.5%) 10351699034112

Total: 10394648838144

date : 2022/2/22

Conclusions & Future Works

- TWNIC have 28 new members in 2021.
- We encourage and help Taiwan ISPs and service providers to manage ROAs to increase the ROA coverage gradually.
- We will continually hold the IPv6 training and activities this year.

Thank You

