

# TWNIC Update

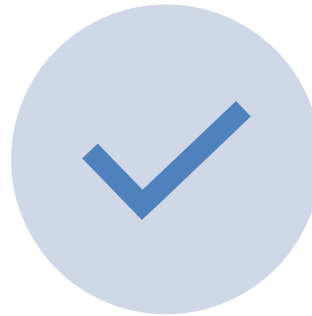
Wen-Yu Chen  
APNIC 59

[wychen@twmic.tw](mailto:wychen@twmic.tw)

# Outline



STATISTICS OF TWNIC

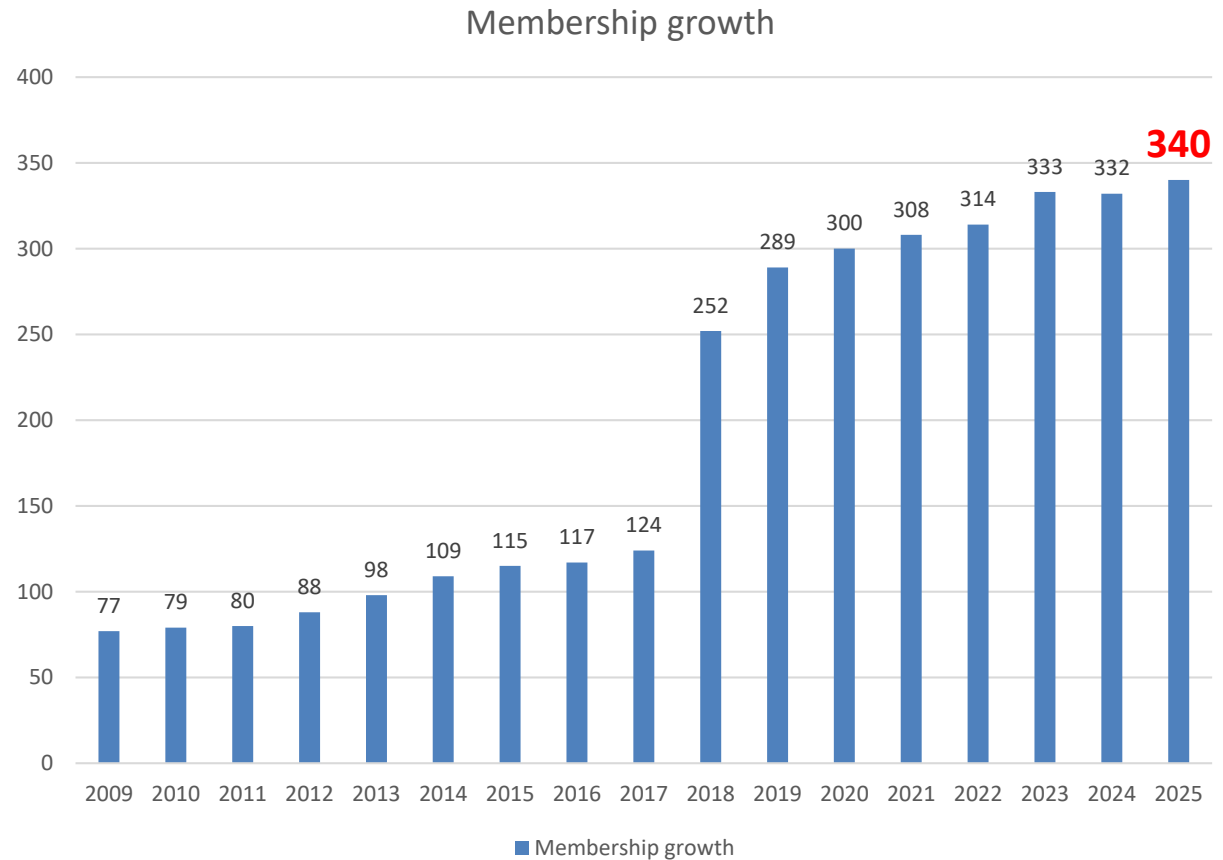
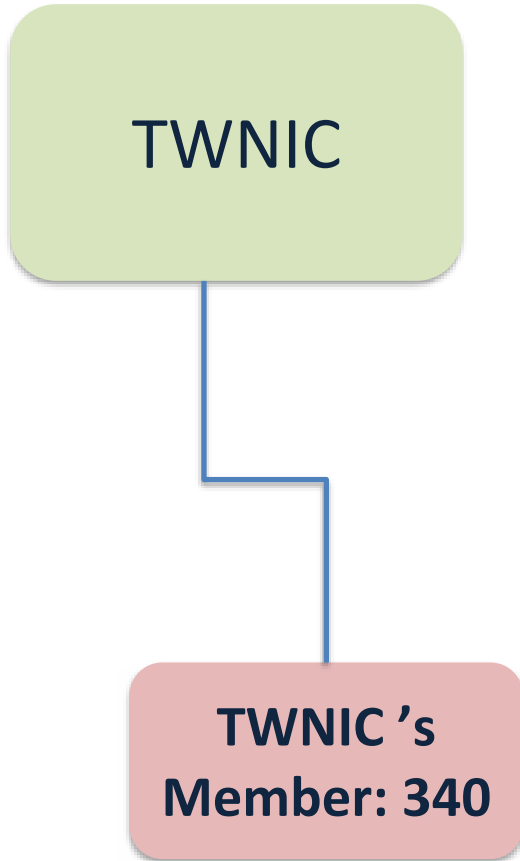


TWNIC'S ACTIVITIES AND  
TRAINING PROGRAMS



CONCLUSIONS & FUTURE  
WORKS

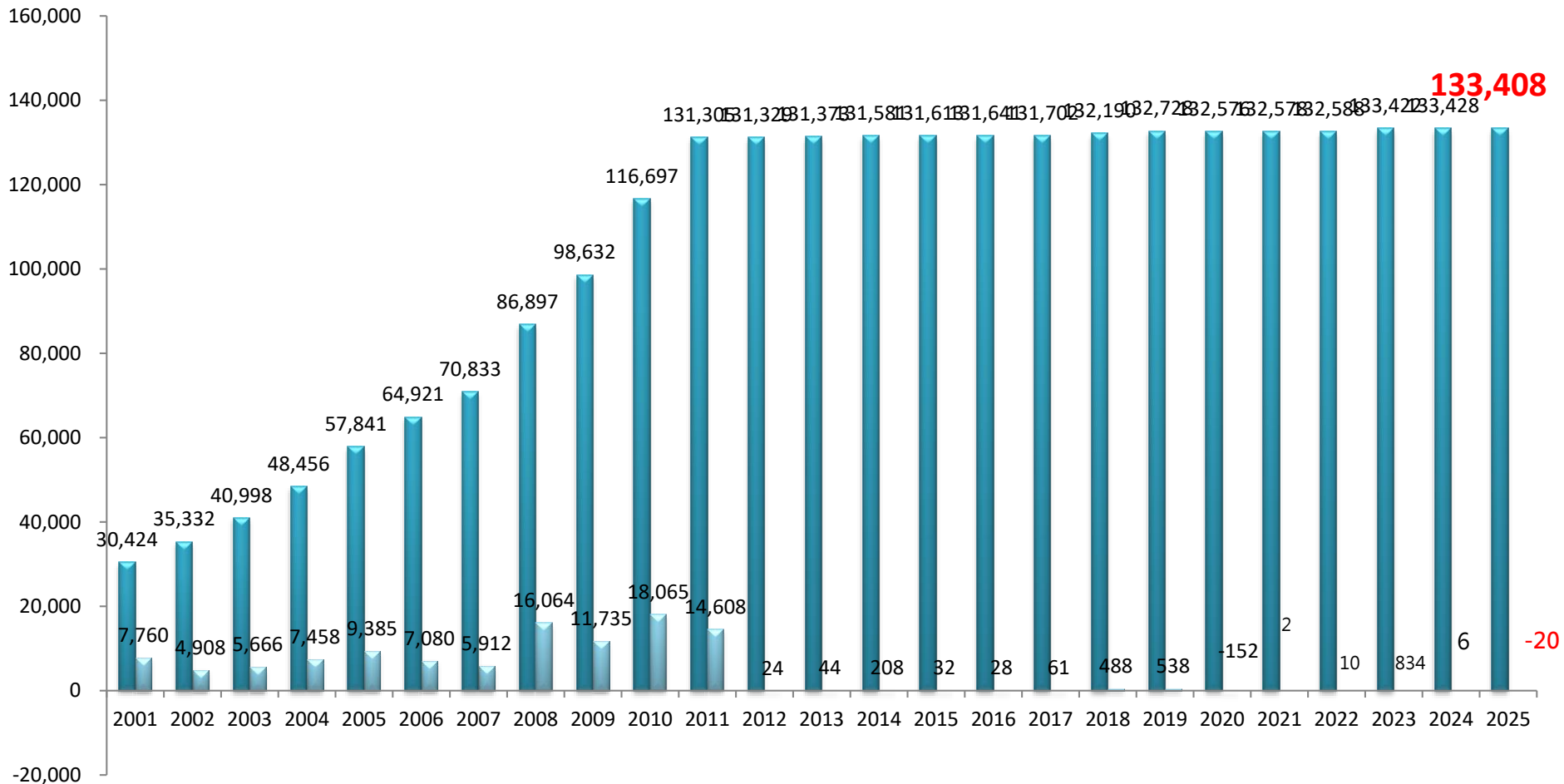
# Statistics of TWNIC's IP members



# IPv4 Address Allocation

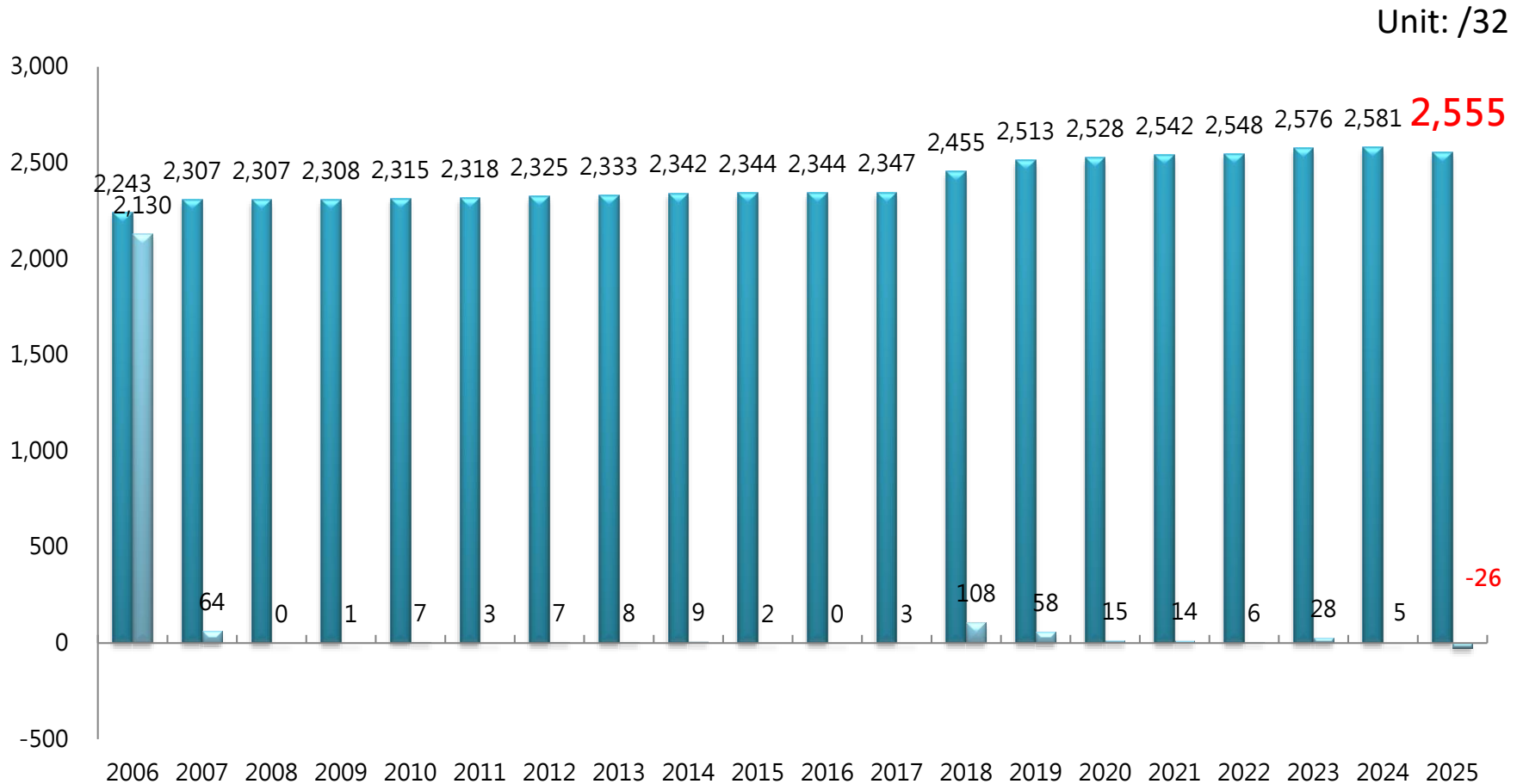
- TWNIC has allocated 132,408 /24s IPv4 addresses.

Unit: /24



# IPv6 Address Allocation

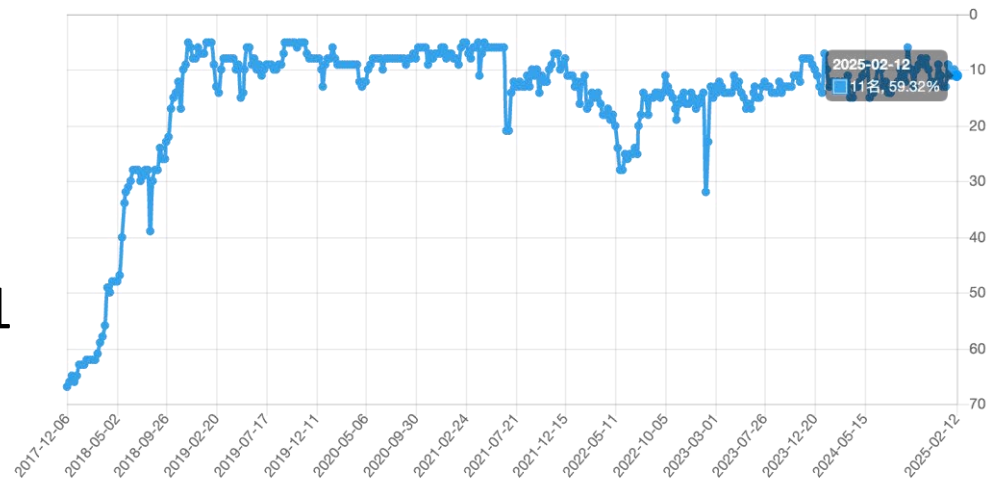
- TWNIC has allocated 2,555 /32s IPv6 addresses.



# Taiwan IPv6 User Availability



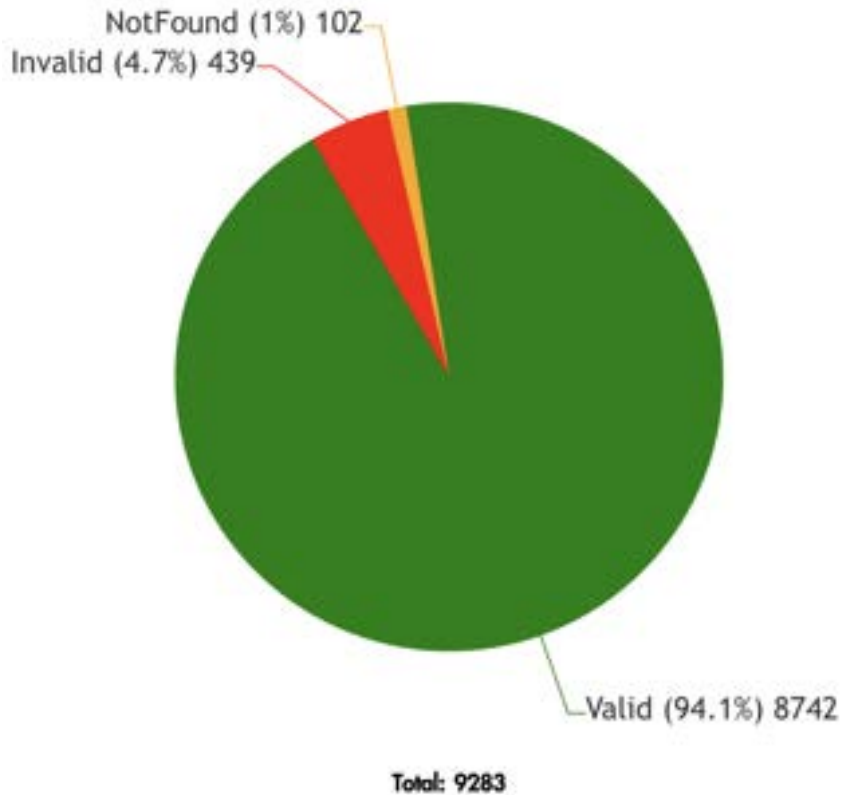
- Taiwan IPv6 user availability is 0.46% in the end of 2017 and 59.32% in February 2025.
- Taiwan IPv6 Global Ranking: 11
- Data derived from APNIC by measuring mean value of IPv6 Capable over the last 7 days.



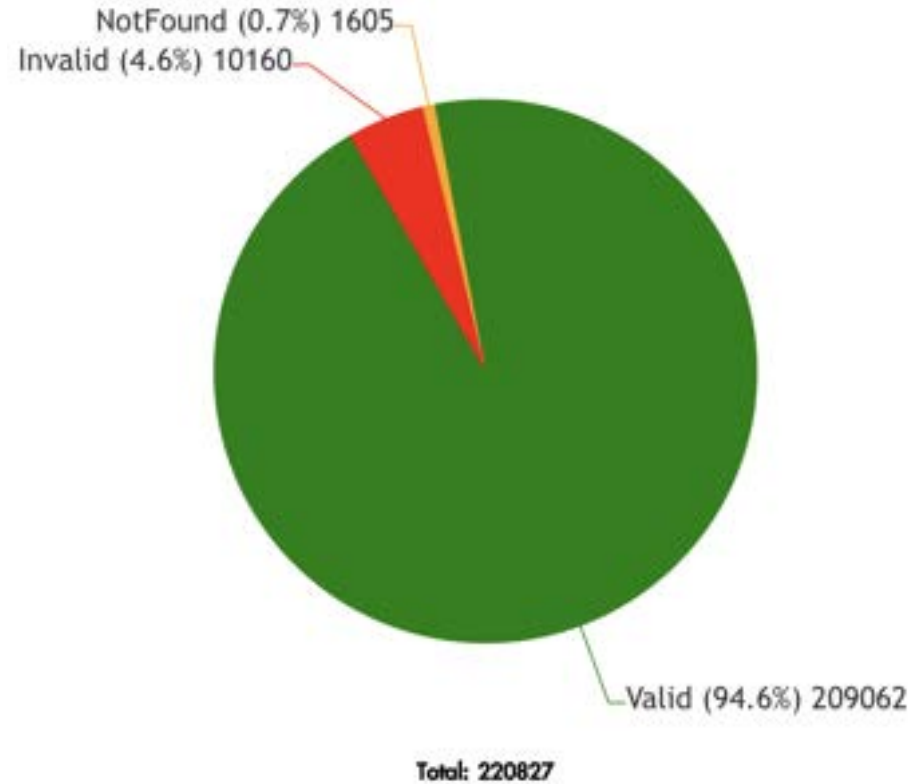
<https://ipv6now.twnic.tw/ipv6/index.html>

# TWNIC RPKI Service

Number of Routing: IPv4 Valid Prefix 94.1%



Number of Class C: IPv4 Valid Space 94.6%

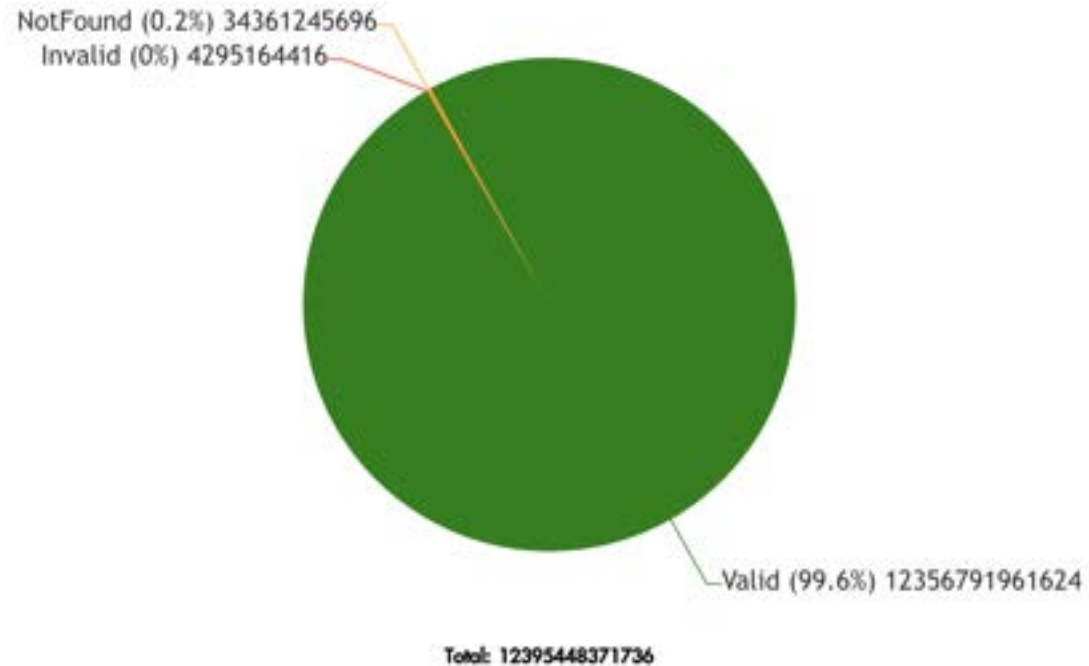
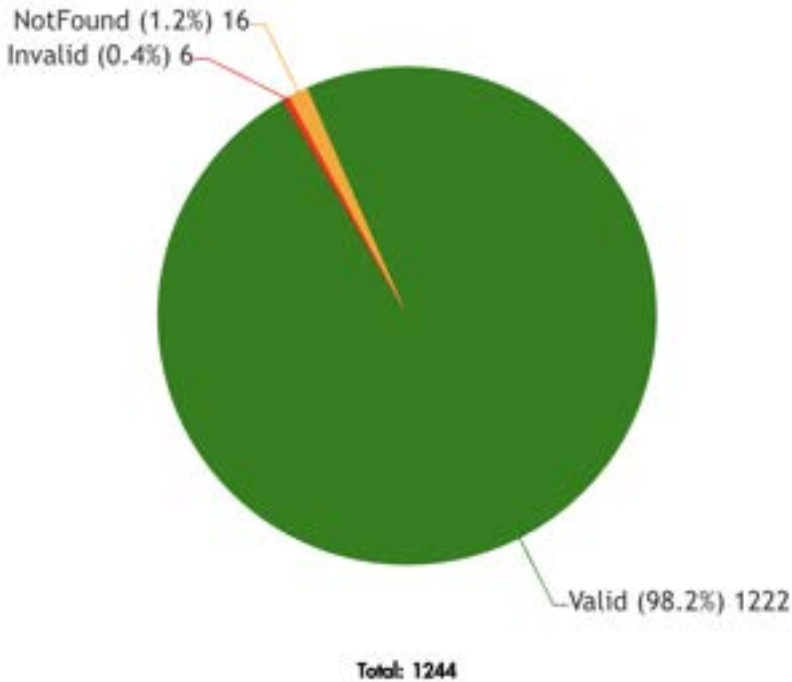


date: 2025/2/14

# TWNIC RPKI Service

Number of Routing: IPv6 Valid Prefix 98.2%

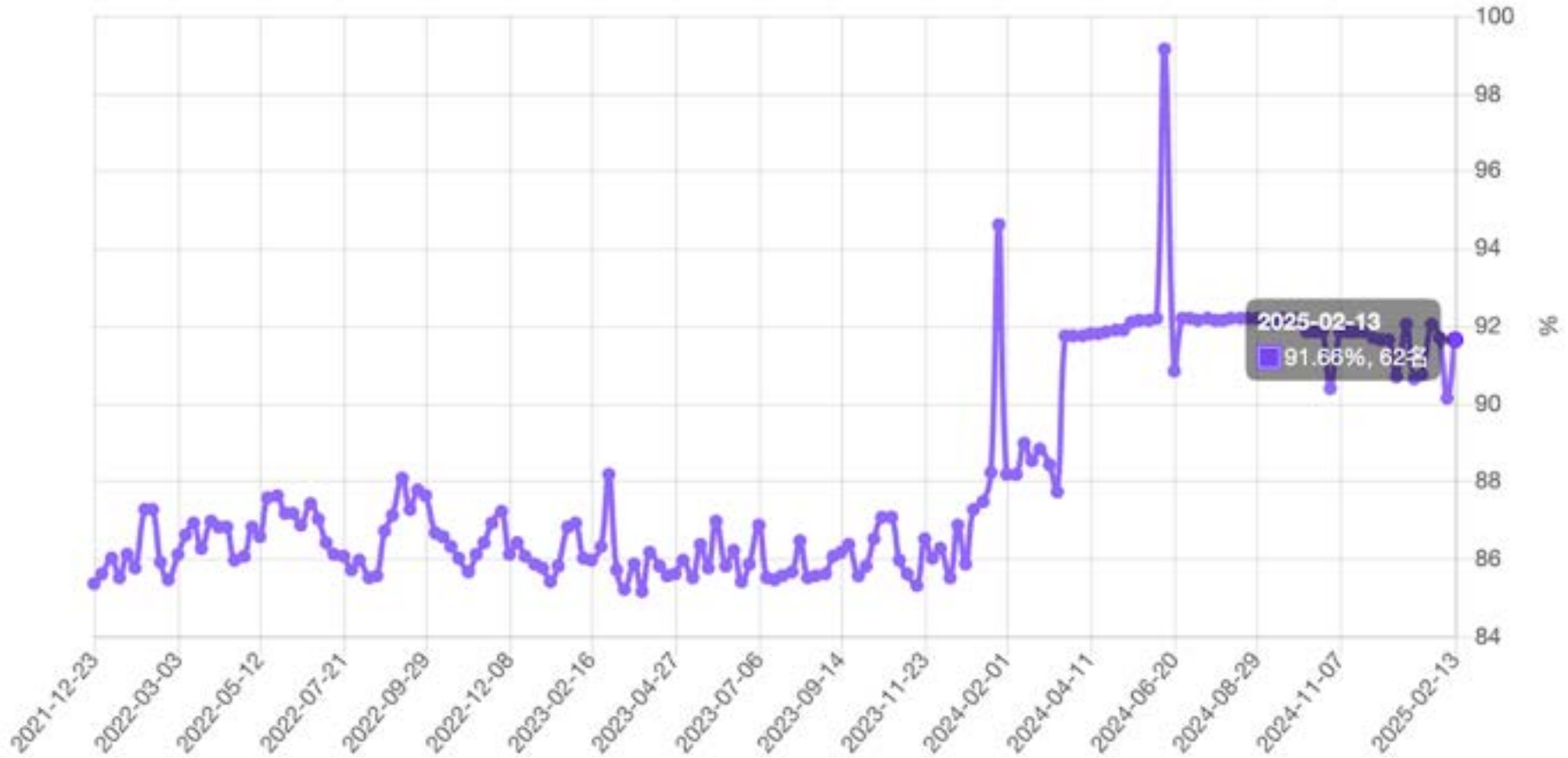
Number of /64: IPv6 Valid Space 99.6%



date: 2025/2/14



# Taiwan RPKI ROA ratio: 91.66%



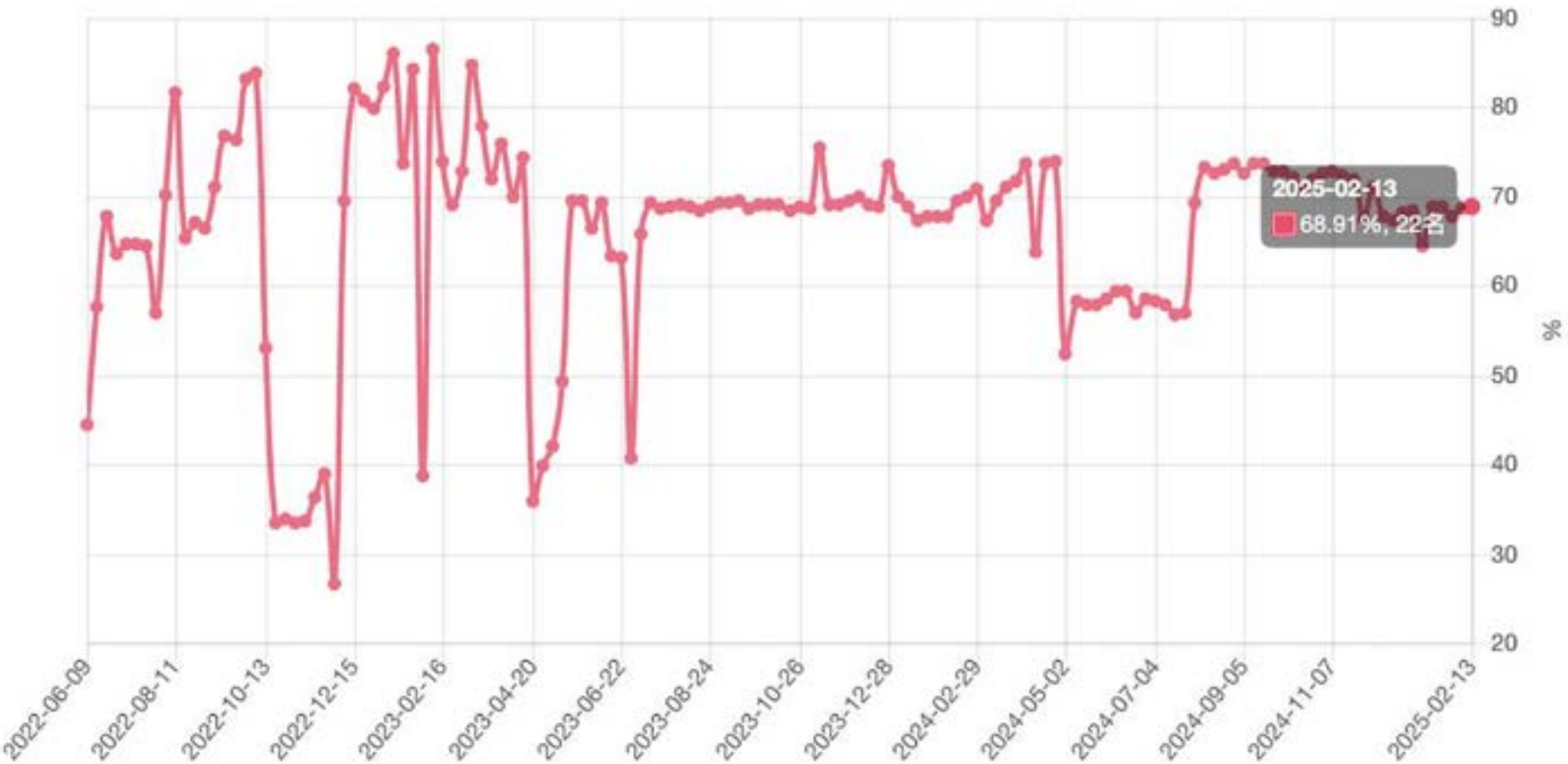
2025-02-13  
91.66%, 62名

%

Data source: RIPE NCC

<https://lirportal.ripe.net/certification/content/static/statistics/world-roas.html>

# Taiwan ROV ratio: 68.91%



Data source: RIPE NCC

<https://lirportal.ripe.net/certification/content/static/statistics/world-roas.html>

# 42nd TWNIC IP Open Policy Meeting



- Time: Oct. 23, 2024
- Keynote speech:
  - **Internet Security / A Solid Foundation for Sustainable Internet Development**  
Che-Hoo Cheng, Senior Director, Development, APNIC
  - **PH Internet Security, Community Perspectives**  
Vincent “Achie” Atienza, peering, interconnection and strategy, Globe Telecom
- Session topics include Cooperation SIG, Policy SIG, IPv6 Deployment SIG and Operational Technology SIG.
- To see the detail agenda, visit <https://opm.twnic.tw/>

# TWNIC Engagement Forum 2025

**Date: April 22-24, 2025**

**Time: 8:30-17:30**

**Venue: NTUH International Convention Center**

Date	Events
4/22/2025	ICANN APAC-TWNIC Engagement Forum
4/23/2025	APNIC-TWNIC 43rd IP Open Policy Meeting
4/24/2025	TWNIC Community Engagement Forum

# Abuse Contacts Validation(2024)



- We have finished 2 abuse contacts validation in 2024.
- There are 275 members(82.6%) finished the validation process on 2nd half 2024.

<b>Execution Time</b>	<b>Total</b>	<b>Finished within 15 days</b>	<b>Finished within 30 days</b>	<b>Total Finished</b>	<b>Unfinished</b>
2024/06/04 10:45:00	324	143	147	242	82
2023/11/24 08:36:00	333	184	240	275	58

# TWNIC IP Training



- We cooperated with APNIC to hold 2024 TWNIC-APNIC Joint Training(H1&H2).

SN	Location	Date	Mode	Topic	Participant
1	Taipei	6/13-6/15	Onsite	BGP Security and Attack Countermeasures	37
	Taipei	11/26-11/28	Onsite	Network Automation Workshop	23

- We held 4 local IP network communication trainings last year.

SN	Location	Date	Mode	Topic	Participant
1	Kaohsiung	5/10	Onsite	IPv6 Network Security Protection Technology	46
2	Taipei	8/09	Onsite	IPv6 IoT, SDN and SRv6	50
3	Yunlin	9/13	Onsite	IPv6 Upgrade and BYOIP for Cloud Migration	24
4	Tainan	12/05	Onsite	IPv6 Network Security Protection Technology	38

# Conclusions & Future Works



- TWNIC has added 30 new members so far in 2024.
- Plans to hold an IP Open Policy Meeting and an IP Member Meeting in 2025.
- Executes abuse contact validation every half year.
- We will continually hold IPv6 training.
- We will hold RPKI training to encourage and assist Taiwan's ISPs and service providers in managing ROAs to increase ROA coverage.

Thank you