APNIC 60 TWNIC Update

Tim Wang

Outline

STATISTICS OF TWNIC
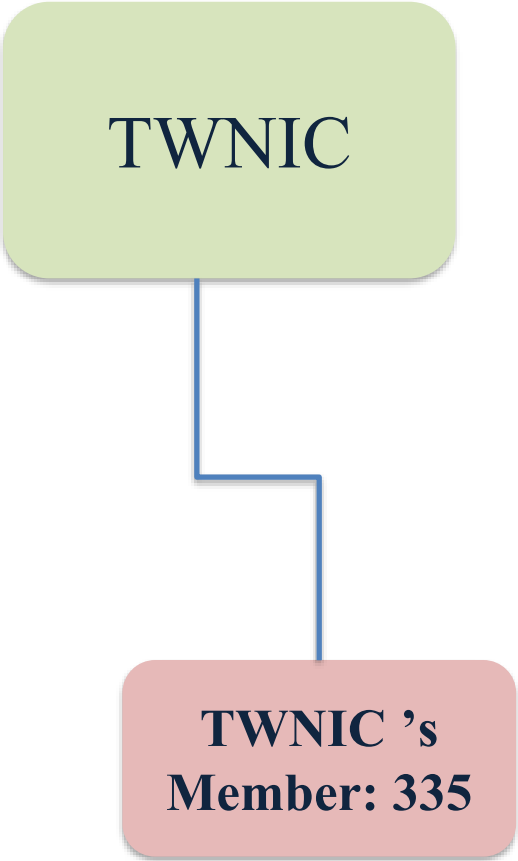
TWNIC'S ACTIVITIES AND TRAINING PROGRAMS

CONCLUSIONS & FUTURE WORKS

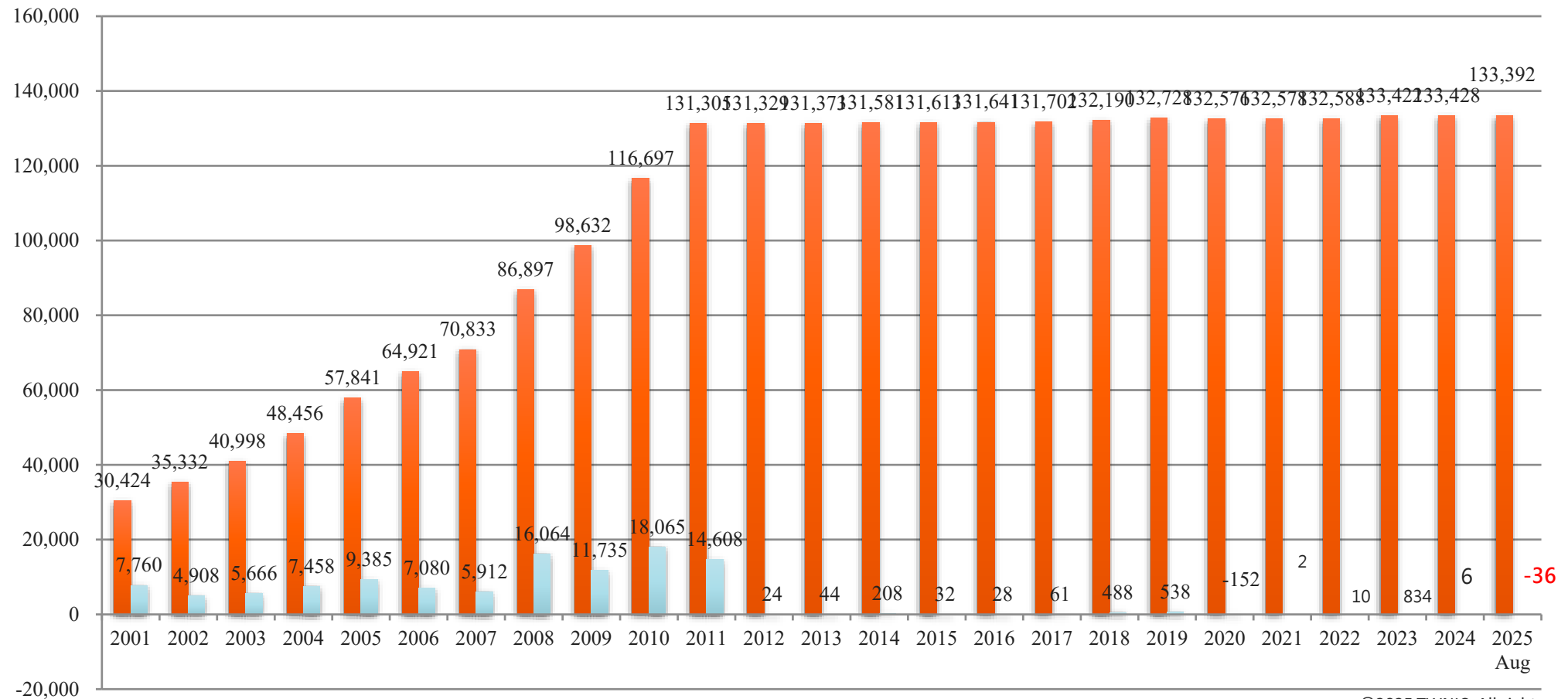# Statistics of TWNIC's IP members

TWNIC

TWNIC 's
Member: 335

Membership growth

Year	Value
2009	77
2010	79
2011	80
2012	88
2013	98
2014	109
2015	115
2016	117
2017	124
2018	252
2019	289
2020	300
2021	308
2022	314
2023	333
2024	332
2025	335

■ Membership growth

IPv4 Address Allocation

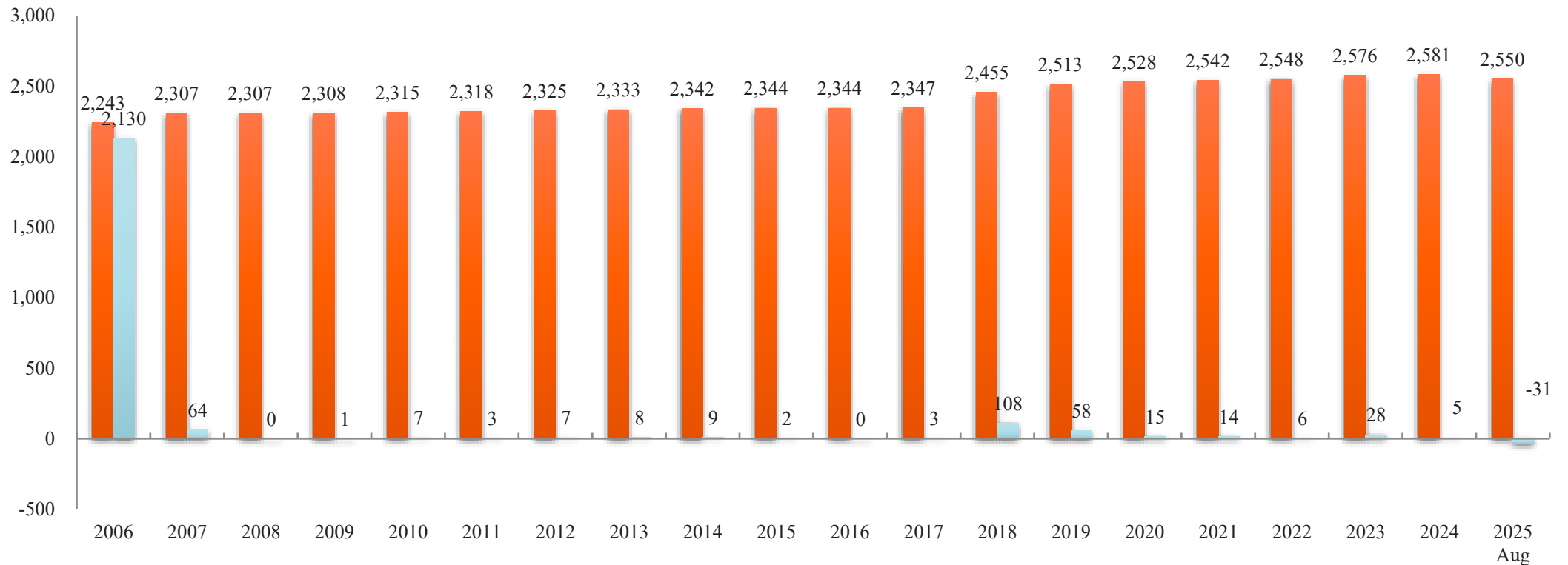- TWNIC has allocated 133,392 /24s IPv4 addresses.

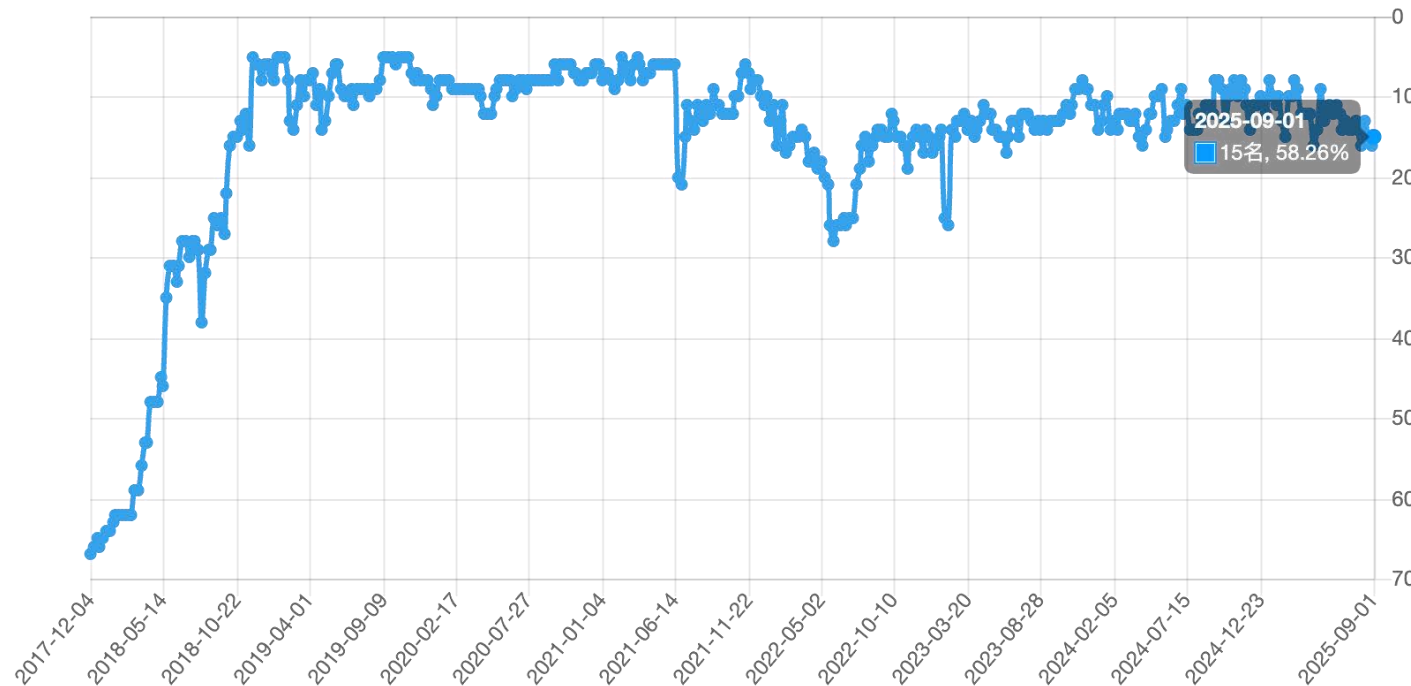Unit: /24

IPv6 Address Allocation

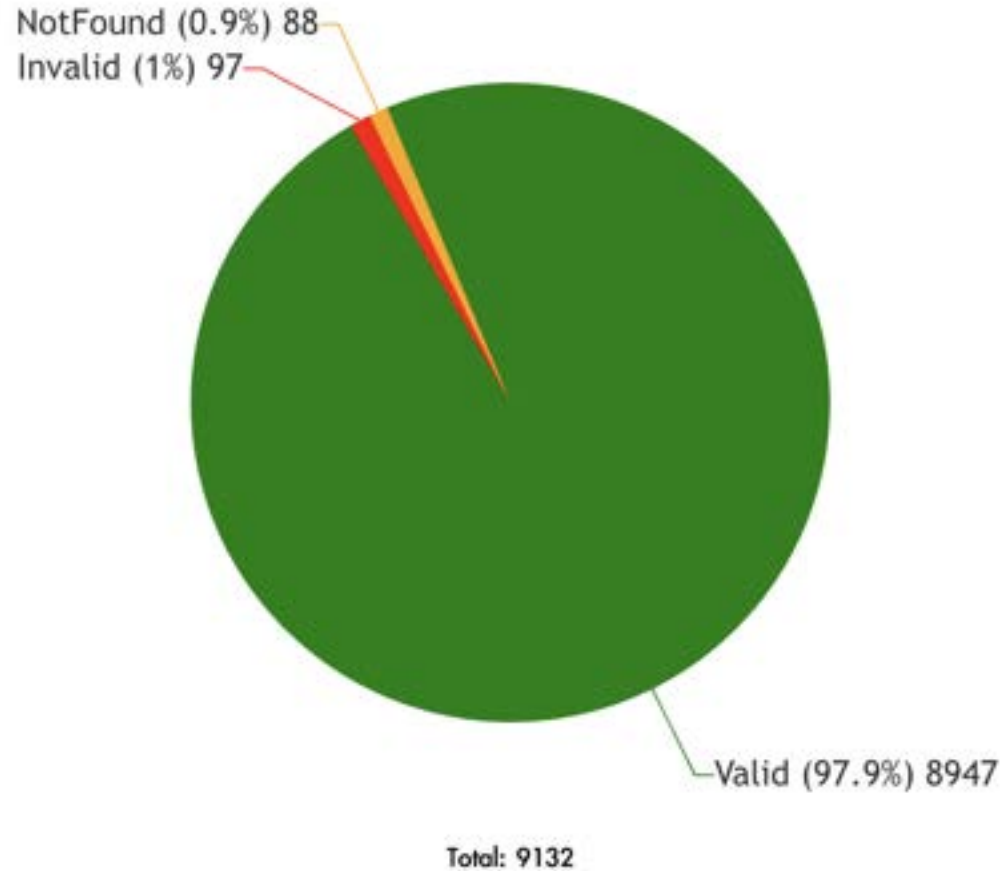- TWNIC has allocated 2,550 /32s IPv6 addresses.

Unit: /32

Taiwan IPv6 User Availability

- Taiwan IPv6 user availability is 0.46% in the end of 2017 and 58.26% in September 2025.

- Taiwan IPv6 Global Ranking: 15

- 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 97.9%	Number of Class C: IPv4 Valid Space 94.6%

NotFound (0.9%) 88
Invalid (1%) 97

Valid (97.9%) 8947

Total: 9132

NotFound (0.6%) 1401
Invalid (0.2%) 587

Valid (99%) 212391

Total: 214379
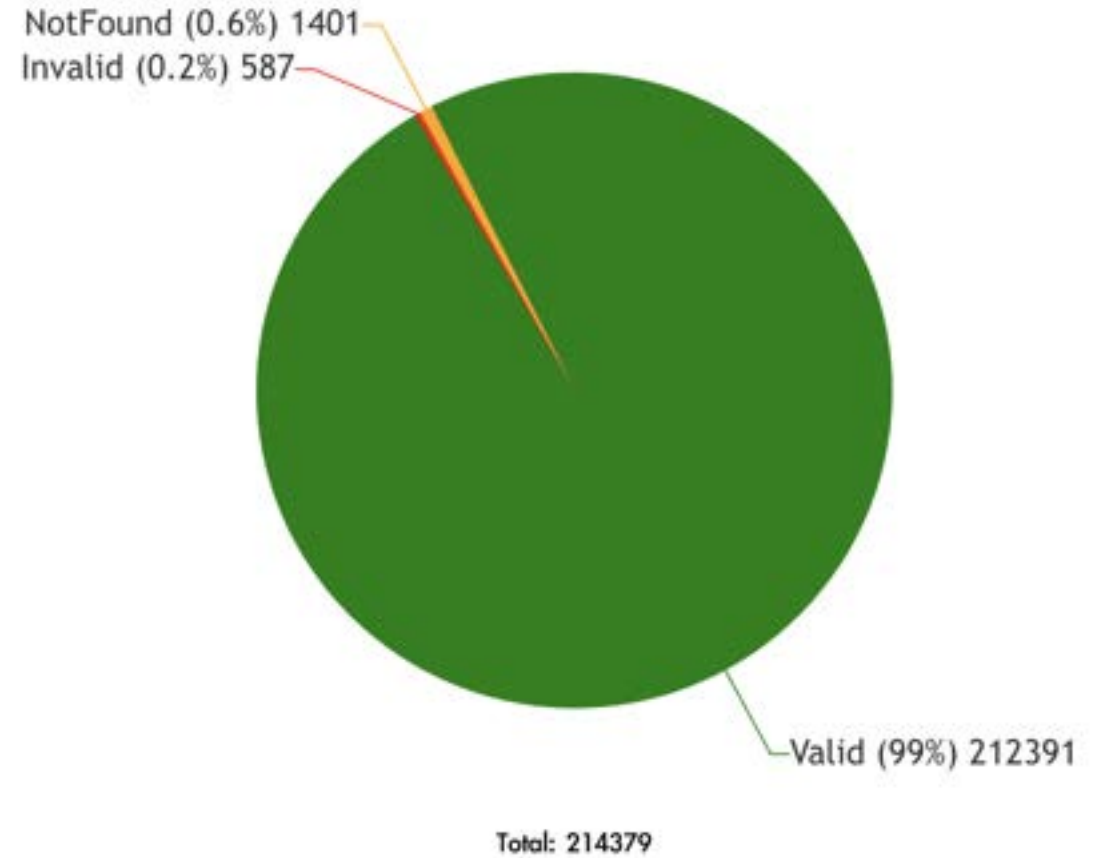
date：2025/9/3

TWNIC RPKI Service

Number of Routing: IPv6 Valid Prefix 98.2%

Number of /64: IPv6 Valid Space 99.1%

NotFound (1.4%) 17
Invalid (0.2%) 3

Valid (98.2%) 1128

Total: 1148

NotFound (0.7%) 32212844544
Invalid (0%) 4294967808

Valid (99.1%) 4320422462236

Total: 4356930274588
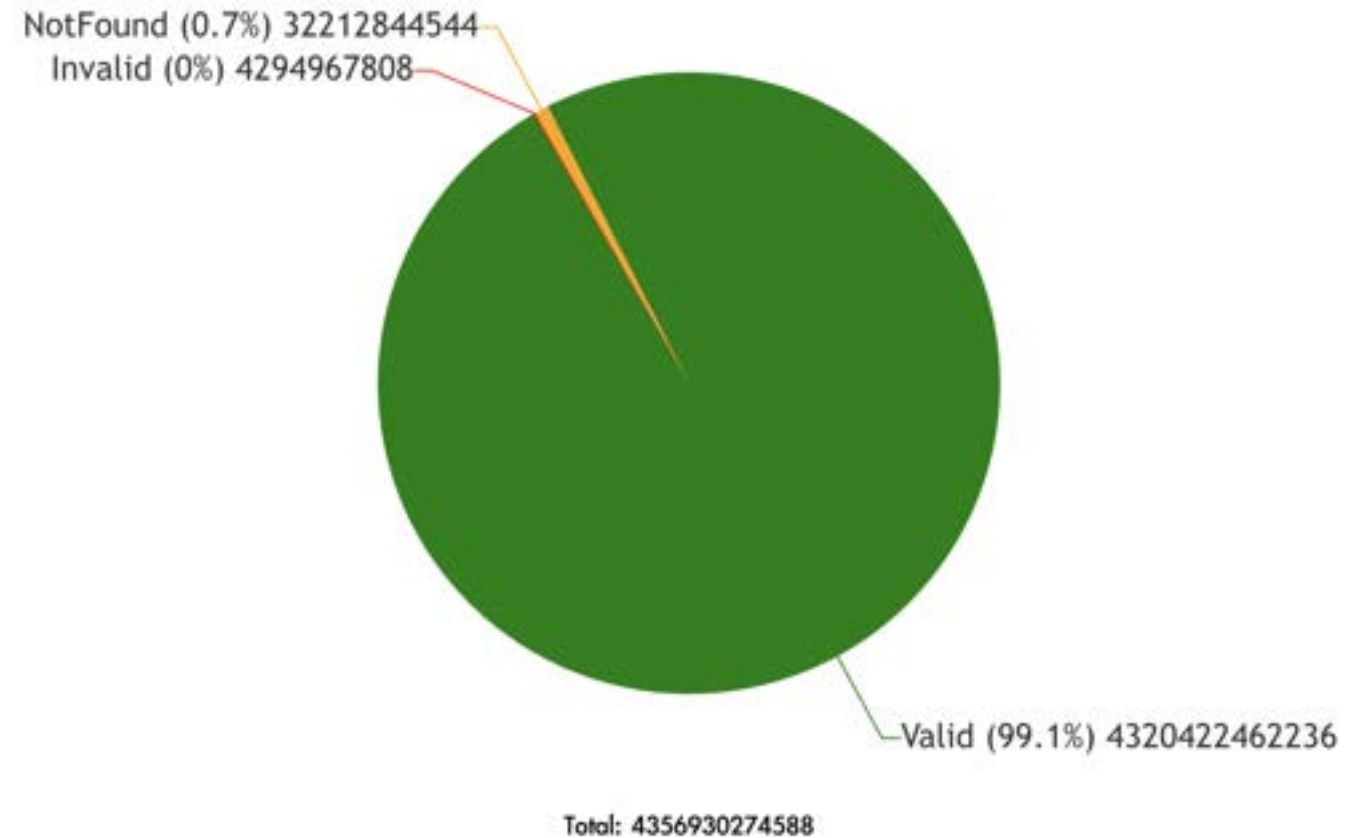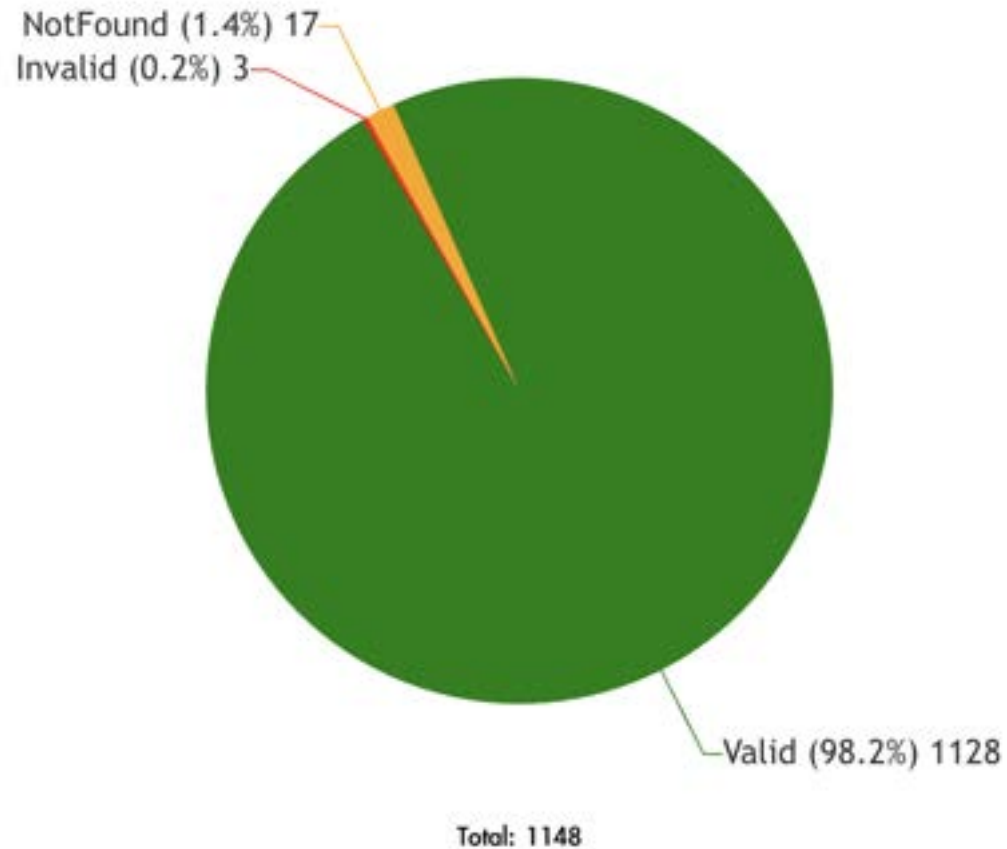
date：2025/9/3

Taiwan RPKI ROA ratio: 96.3%

Data source: RIPE NCC
https://lirportal.ripe.net/certification/content/static/statistics/world-roas.html

Taiwan ROV ratio: 57.28%

Data source: RIPE NCC
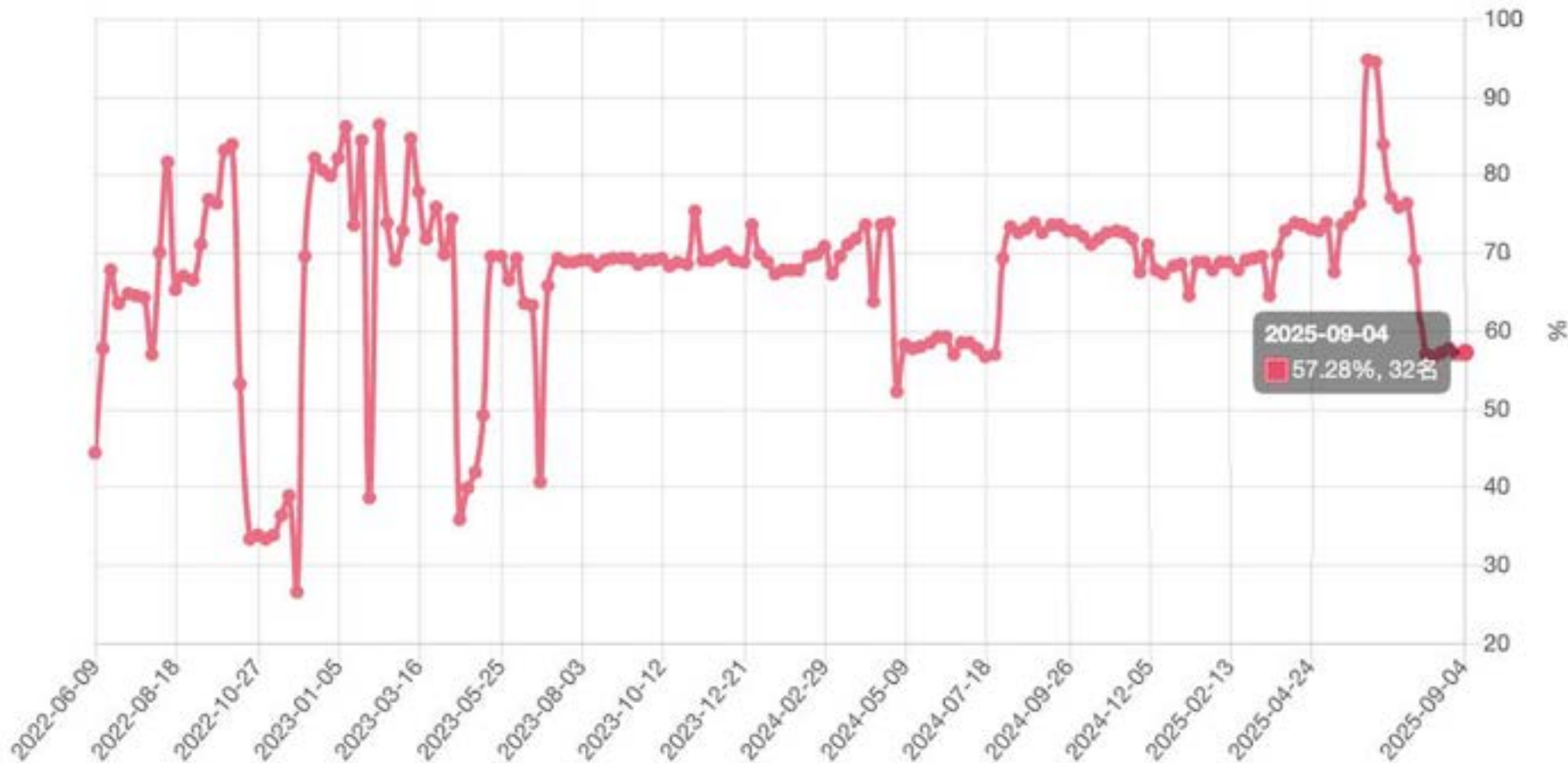https://lirportal.ripe.net/certification/content/static/statistics/world-roas.html

Abuse Contacts Validation

- There are 309 members(94.5%) finished the validation process on 1st half 2025.

- Policy Update – Abuse Contact Validation

  ➢ TWNIC members must complete Abuse Contact Validation at least once a year. Failure to comply with this requirement may result in the termination of membership by TWNIC, and reclaim all delegated resources.

Execution Time	Total	Finished within 15 days	Finished within 30 days	Total Finished	Unfinished
2025/05/27 11:45:00	327	181	245	309	18

TWNIC Engagement Forum 2025

Date: April 22-24, 2025

Day 2: APNIC-TWNIC 43rd IP Open Policy Meeting

Keynote Speech

- Global Networking Trends and the Role of the Asia-Pacific Region, Jia Rong Low, Director General, APNIC

- Korea's Role and Challenge in Global Digital Transformation, Sang-Jung Lee, President of KISA

- Seabed Security – Defining the Threat to Critical Underwater Infrastructure Assets, Kenny Huang, Board Chair, TWNIC

To see the detail agenda, visit: https://forum.twnic.tw/2025/agenda.htm

TWNIC IP Training

- We cooperated with APNIC to hold 2025 TWNIC-APNIC Joint Training(H1).

SN	Location	Date	Mode	Topic	Participant
1	Taipei	6/24-6/26 (3 days)	Onsite	Network Security Workshop	43

- We held 2 local IP network communication trainings until August this year.

SN	Location	Date	Mode	Topic	Participant
1	Kaohsiung	5/2	Onsite	IPv6 Upgrade and BYOIP for Cloud Migration	40
2	Taipei	8/22	Onsite	IPv6 Network Security Protection Technology	39

Conclusions & Future Works

- TWNIC has added 23 new members so far in 2025.
- Plans to hold an IETF training course and an IP Member Meeting in the second half of 2025.
- Executes Abuse Contact Validation every half year, TWNIC members must complete Abuse Contact Validation at least once a year
- We will continually hold IPv6 training.
- We will encourage and assist Taiwan's ISPs and service providers in managing ROAs and ROV.

Thank You.

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