



TWNIC Update

Tim Wang, TWNIC

APNIC 57

Outline

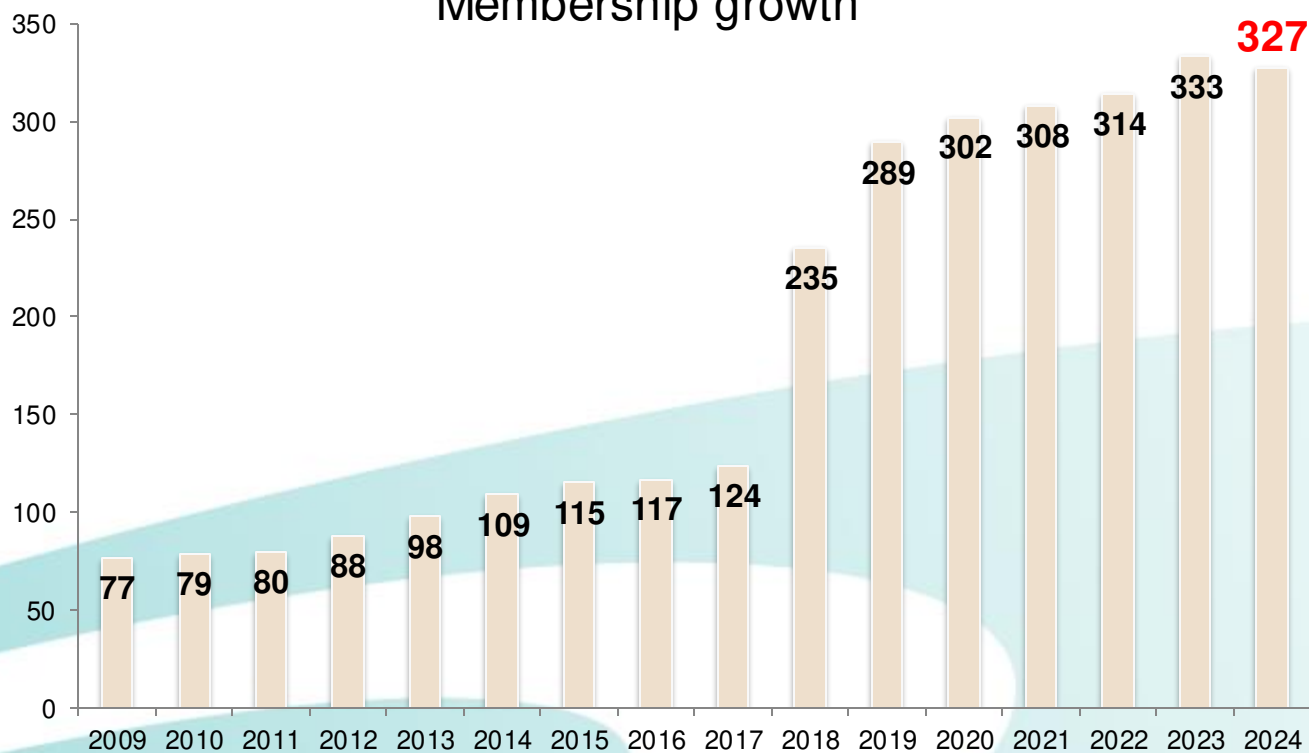
- Statistics of TWNIC's IP members
- TWNIC's activities and training programs
- TWNIC RPKI Update
- Conclusions & Future Works

Statistics of TWNIC's IP Members

TWNIC

TWNIC 's
Member:
327

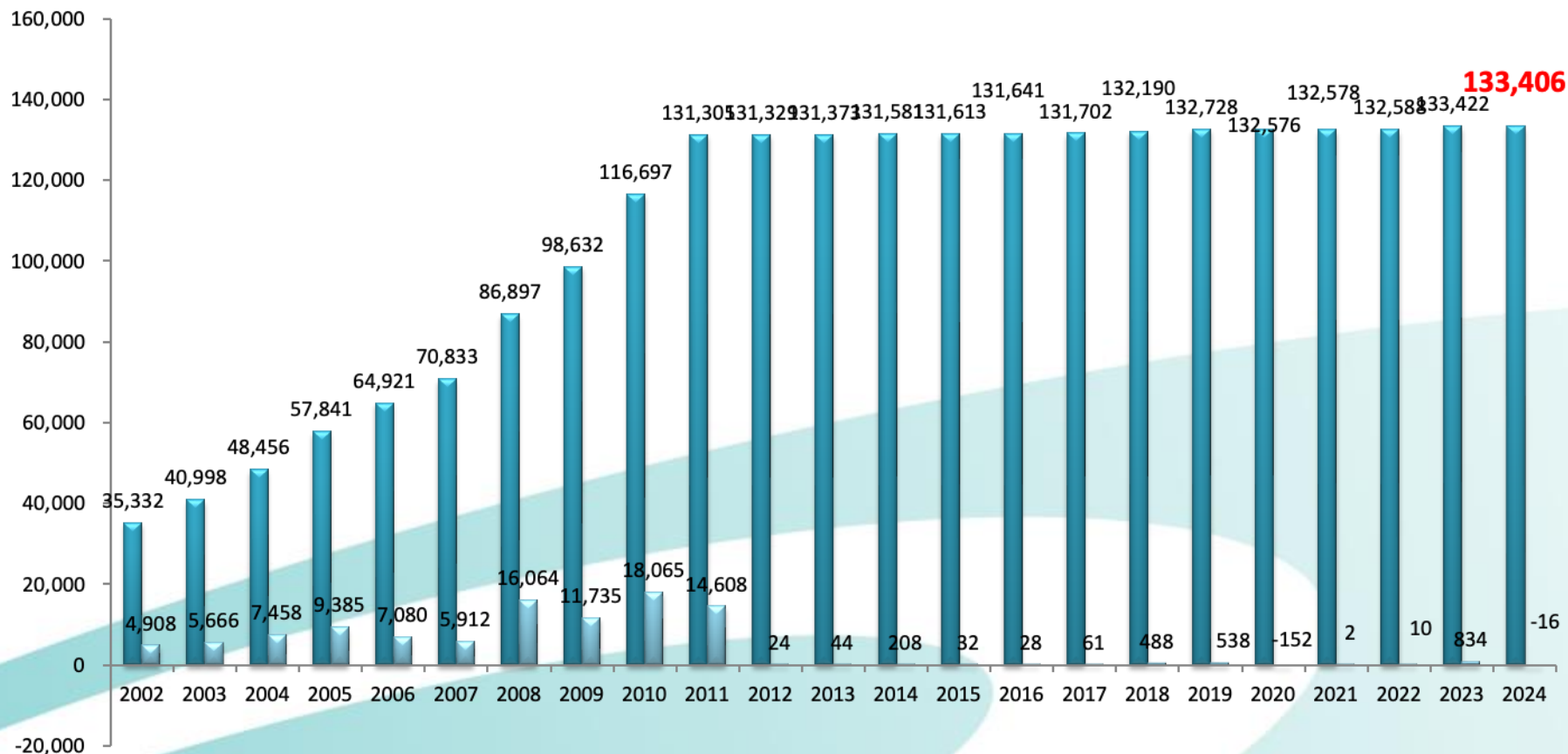
Membership growth



IPv4 Address Allocation

- TWNIC has allocated 133,406 /24s IPv4 addresses.

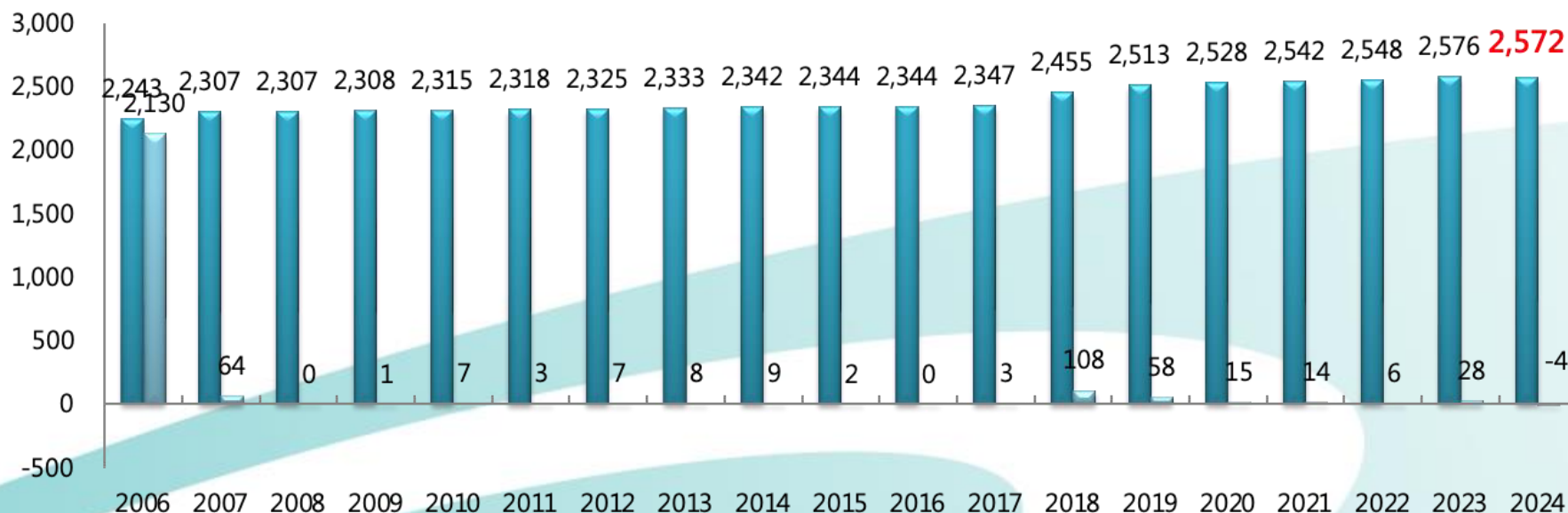
Unit: /24



IPv6 Address Allocation

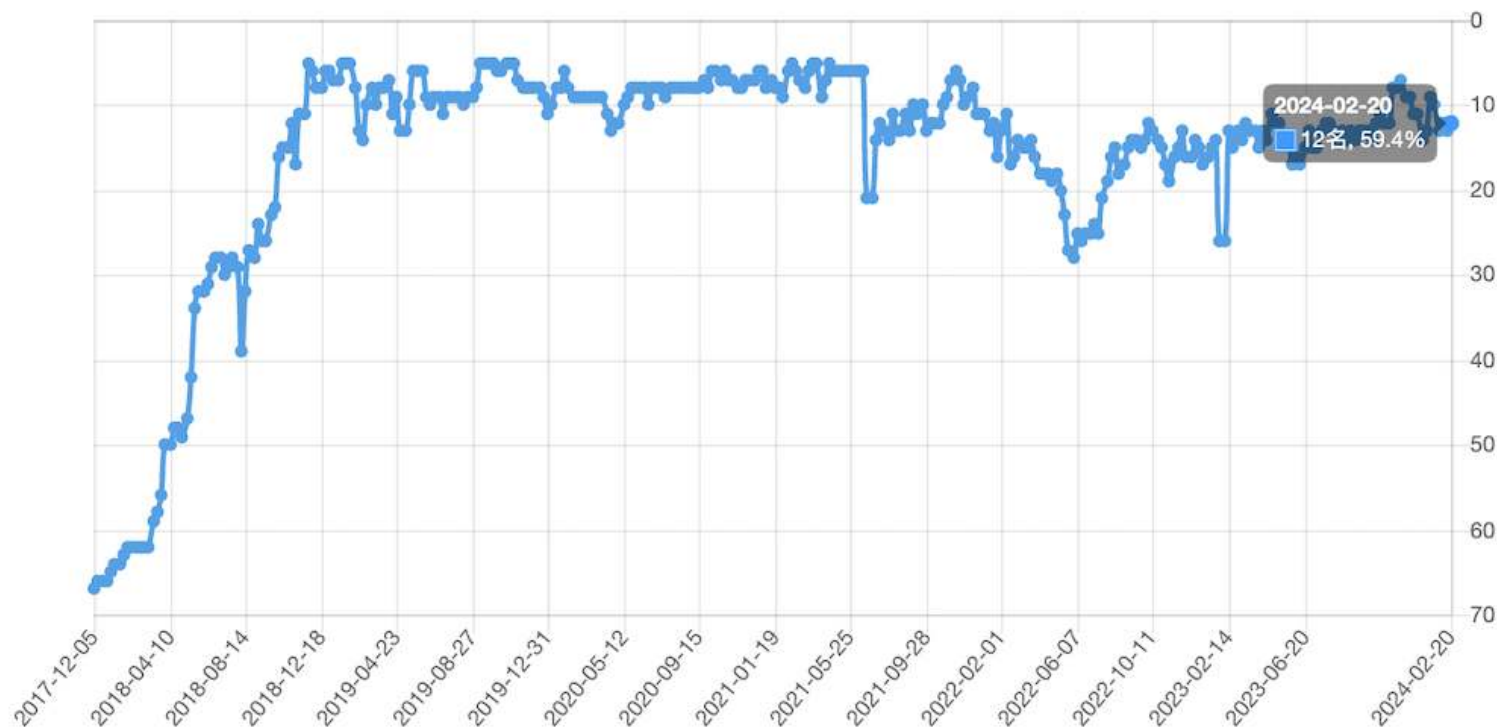
- TWNIC has allocated 2,572 /32s IPv6 addresses.
- Most of TWNIC IP members have obtained IPv6 addresses.

Unit: /32



Taiwan IPv6 User Availability

- Taiwan IPv6 user availability is 0.46% in the end of 2017 and 59.4% in February 2024.
- Taiwan IPv6 Global Ranking: 12



40th TWNIC IP Open Policy Meeting

- Time: Dec 16, 2023
- Keynote speech:
 - **On LEOs (Low Earth Orbits) and Starlink**
Geoff Huston, Chief Scientist, APNIC
 - **The development and future of Taiwan's satellite network**
Yeh-Chin Ho, Assistant Vice President, Network Technology Group,
Chunghwa Telecom Co., Ltd.
- Session topics include Cyber Security SIG, Operational Technology SIG, Cooperation SIG, Policy SIG and IPv6 Deployment SIG.
- To see the detail agenda, visit
<https://opm.twnic.tw/40th/agenda.html>



5th ICANN APAC-TWNIC Engagement Forum with 41st TWNIC IP Open Policy Meeting

Date: 23-24 Apr 2024
Venue: Howard Hotel, Taipei

Abuse Contacts Validation(2023)

- We have finished 2 abuse contacts validation on 2023
- There are 282 members(88.1%) finished the validation process on 2nd half 2023

Execution Time	Total	Finished within 15 days	Finished within 30 days	Total Finished	Unfinished
2023/05/31 10:16:00	321	179	228	270	51
2023/11/24 08:36:00	320	176	251	282	38

IP Training

- We cooperated with APNIC to hold 2023 TWNIC-APNIC Joint Training(H1).

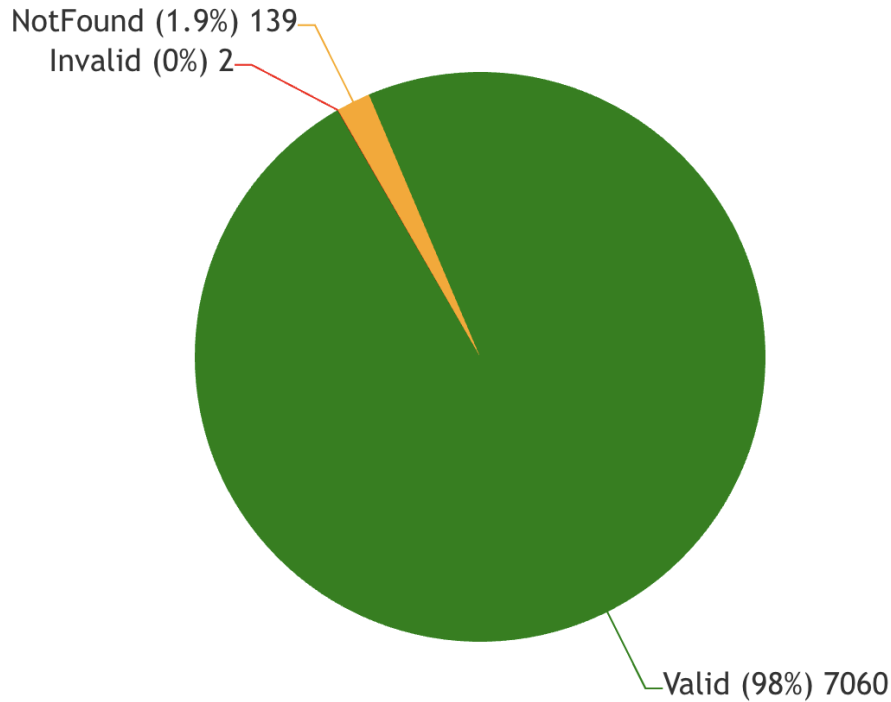
SN	Location	Date	Mode	Topic	Participant
1	Taipei	6/13-6/15 (3 days)	Hybrid	IPv6 and RPKI	36

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

SN	Location	Date	Mode	Topic	Participant
1	Kaohsiung	5/12	Hybrid	IPv6 Upgrade and BYOIP for Cloud Migration	59
2	Taipei	8/11	Onsite	IPv6 IoT, SDN and SRv6	46
3	Yunlin	9/26	Onsite	IPv6 Network Security Protection Technology	33
4	Tainan	11/23	Onsite	IPv6 Upgrade and BYOIP for Cloud Migration	42

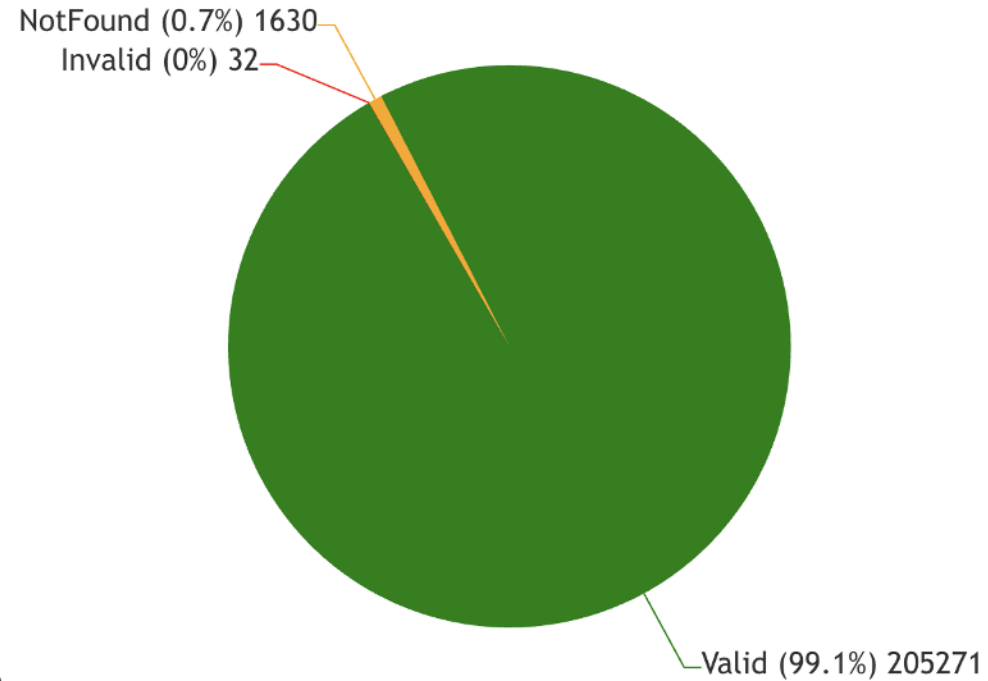
TWNIC RPKI Service

Number of Routing: IPv4 Valid Prefix 98.0%



Total: 7201

Number of Class C: IPv4 Valid Space 99.1%

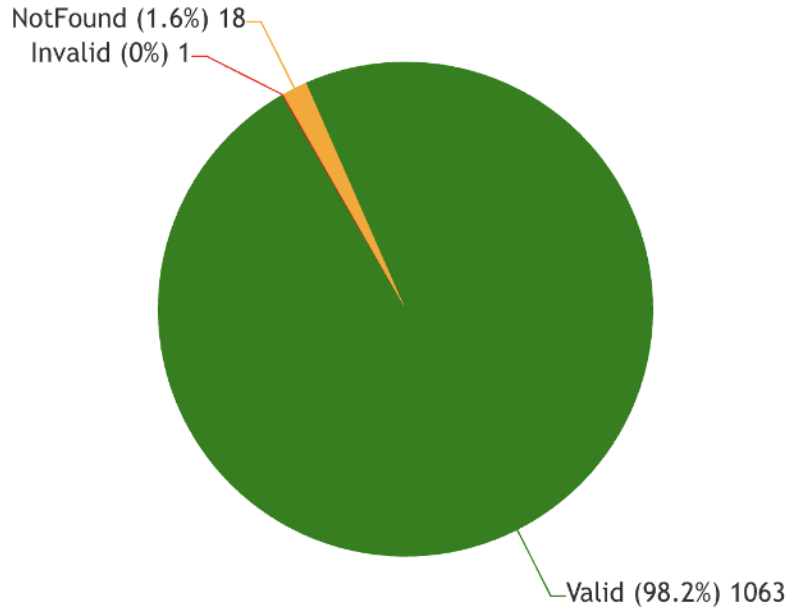


Total: 206933

date: 2024/2/22

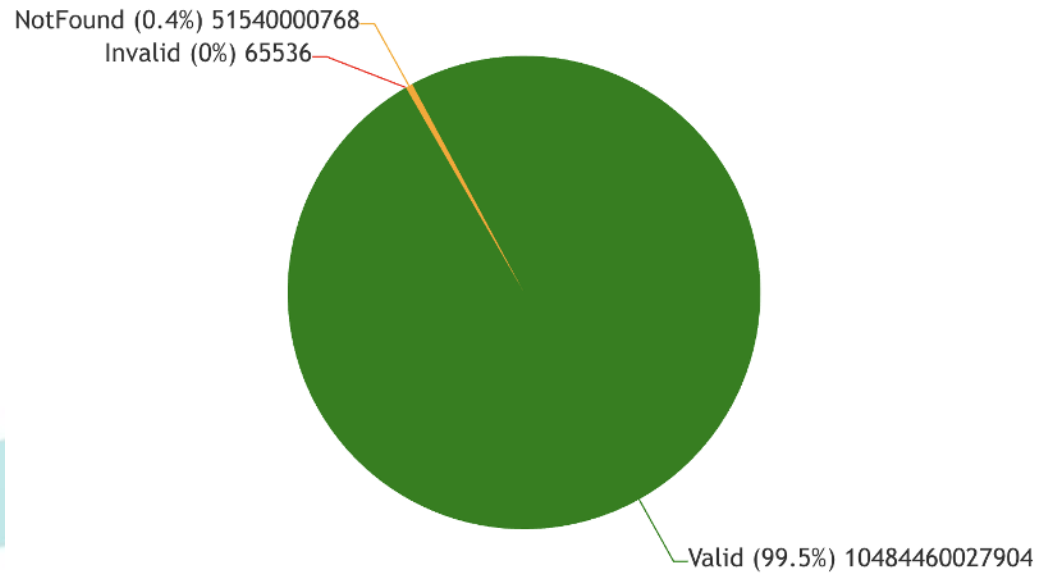
TWNIC RPKI Service

Number of Routing: IPv6 Valid Prefix 98.2%



Total: 1082

Number of /64: IPv6 Valid Space 99.5%



Total: 10536000094208

date: 2024/2/22

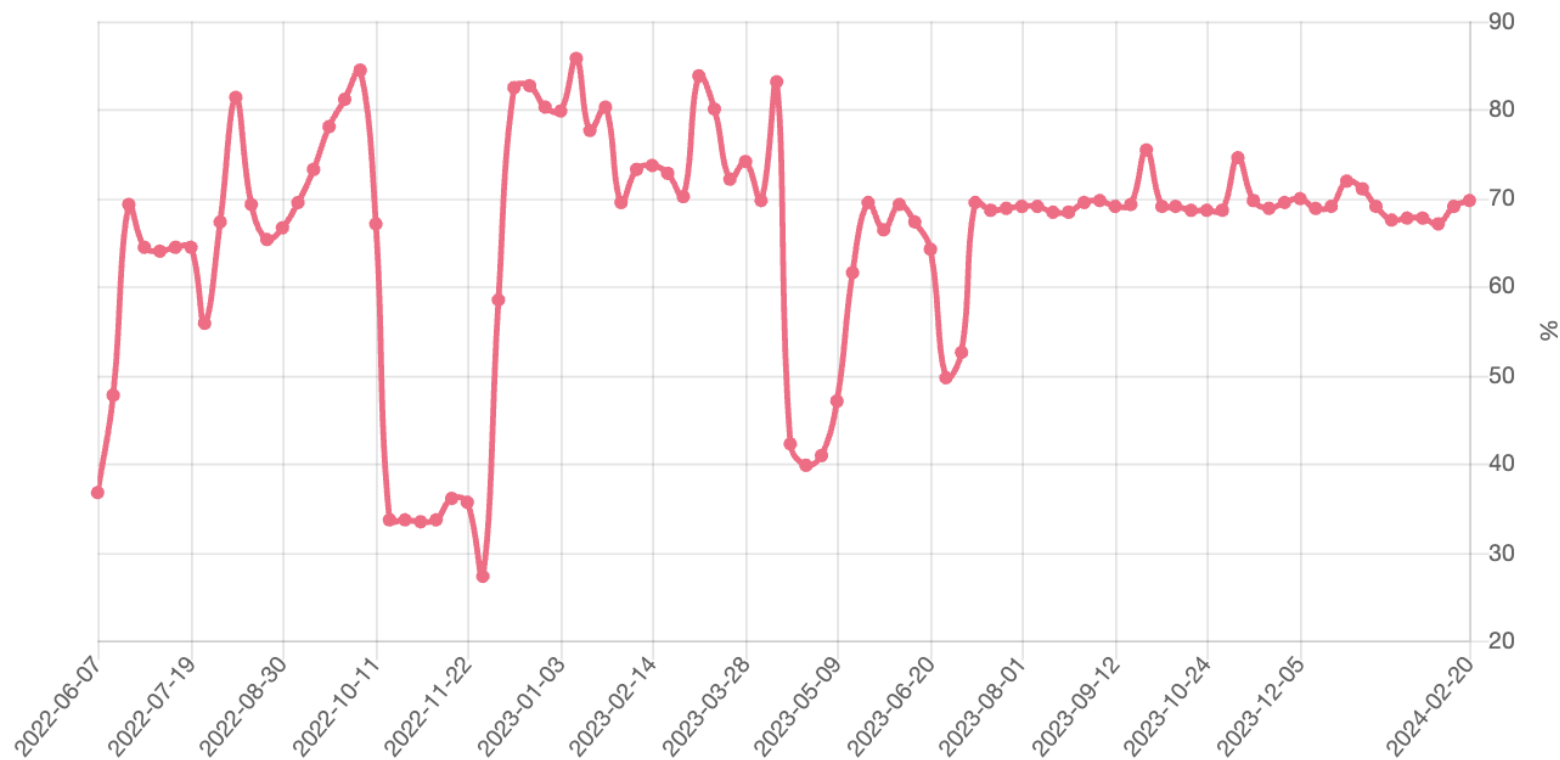
Taiwan ROV Asia Ranking

Taiwan RPKI_ROV Asia Ranking: 4

2024-02-20 — 台灣亞洲排名：4名 (RPKI_ROV比例: 69.77%)

Data derived from APNIC by measuring mean value of RPKI_ROV Filter.

[Top 300 List](#)



Conclusions & Future Works

- TWNIC have 29 new members in 2022.
- Execute abuse contact validation every half year.
- **Plan to hold 2 Open Policy Meeting in 2024.**
- We will continually hold the IPv6 training and activities.
- We encourage and help Taiwan ISPs and service providers to manage ROAs to increase the ROA coverage.

Thank You

