

A decorative graphic on the left side of the slide. It features a large white circle in the upper left and a smaller light blue circle in the lower left. Two diagonal bands, one light orange and one light grey, cross the slide from the bottom left towards the top right, passing behind the circles.

APNIC 61 TWNIC Update

Tim Wang

Outline



STATISTICS OF TWNIC

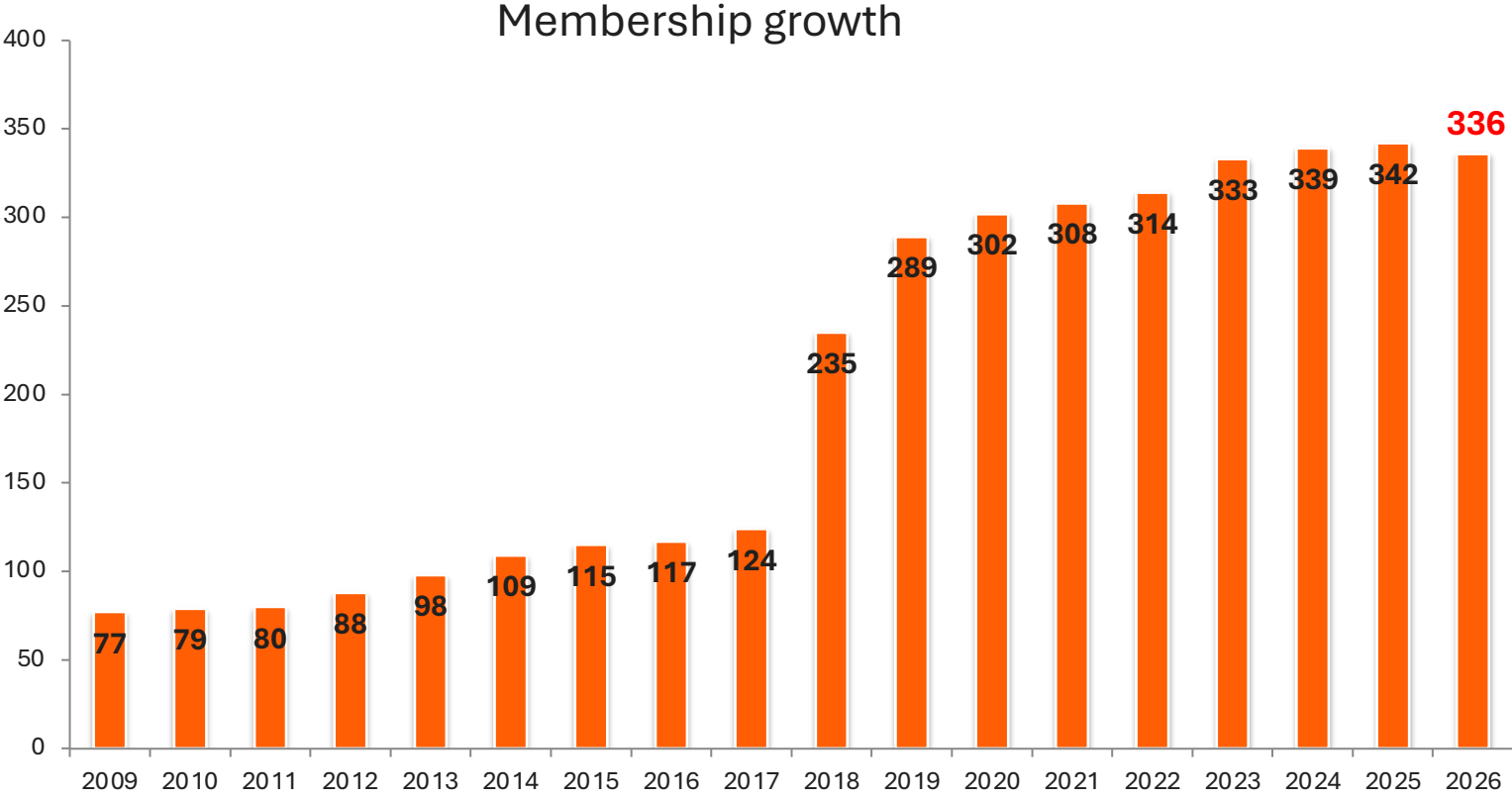
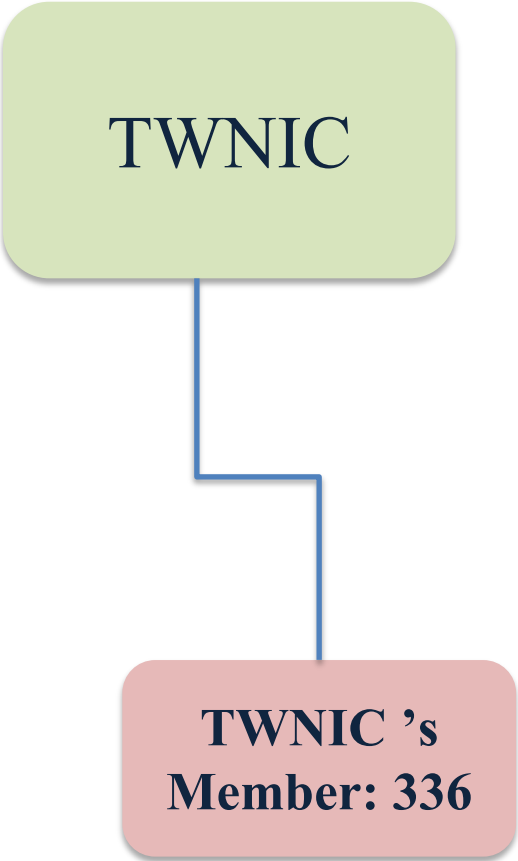


TWNIC'S ACTIVITIES
AND TRAINING
PROGRAMS



CONCLUSIONS &
FUTURE WORKS

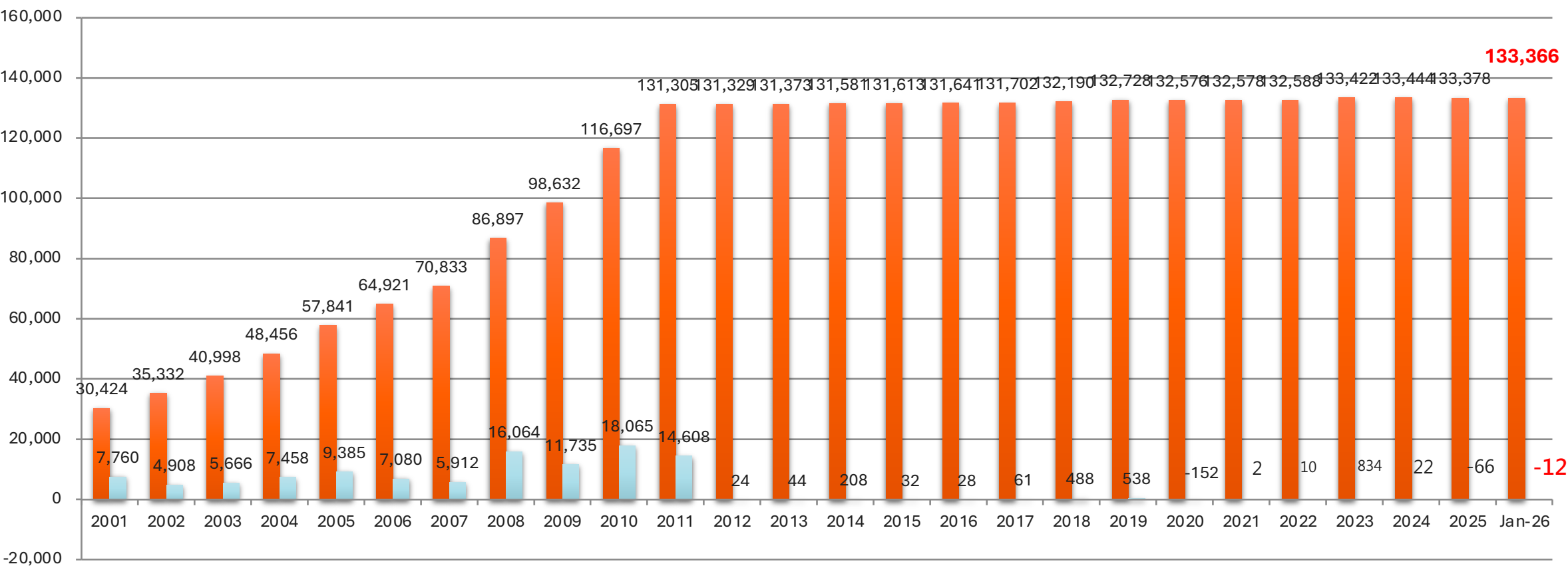
Statistics of TWNIC's IP members



IPv4 Address Allocation

- TWNIC has allocated 133,366 /24s IPv4 addresses.

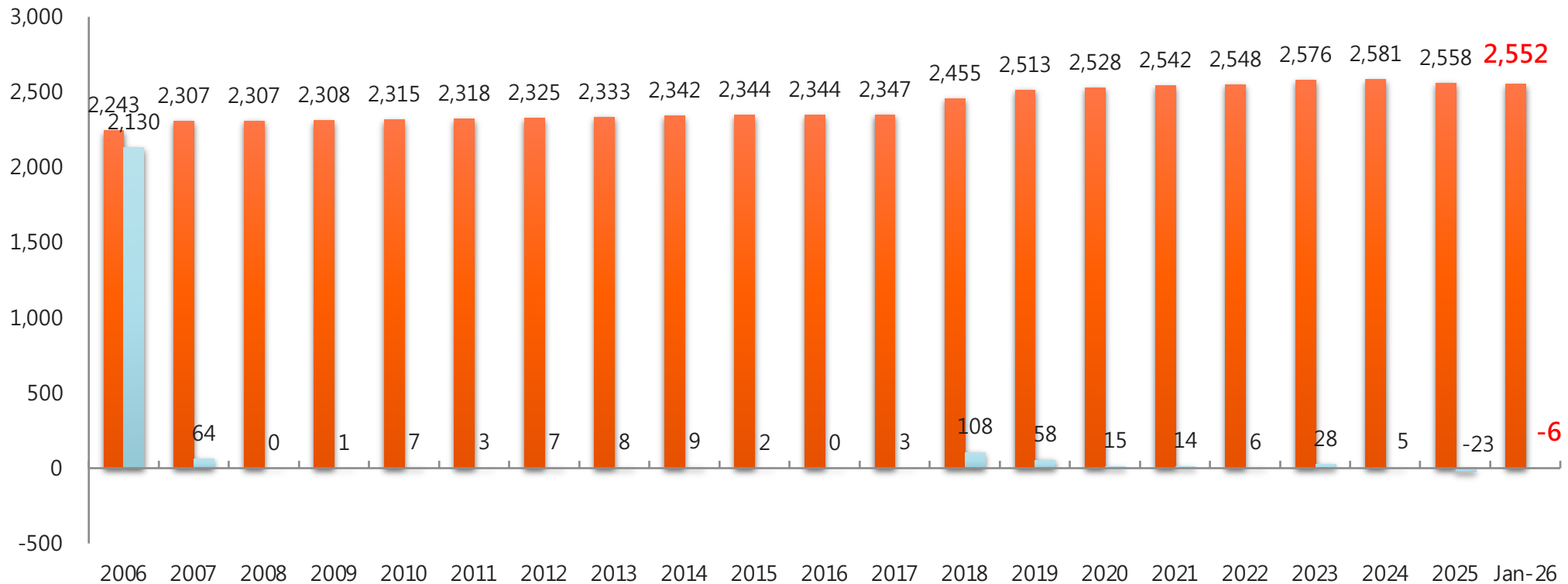
Unit: /24



IPv6 Address Allocation

- TWNIC has allocated 2,552 /32s IPv6 addresses.

Unit: /32



Taiwan IPv6 User Availability

- Taiwan IPv6 user availability is 0.46% in the end of 2017 and 61.36% in February 2026.
- Taiwan IPv6 Global Ranking: 14
- Data derived from APNIC by measuring mean value of IPv6 Capable over the last 7 days.

2026-02-01 — 台灣全球排名：14名 (IPv6比例: 61.36%)

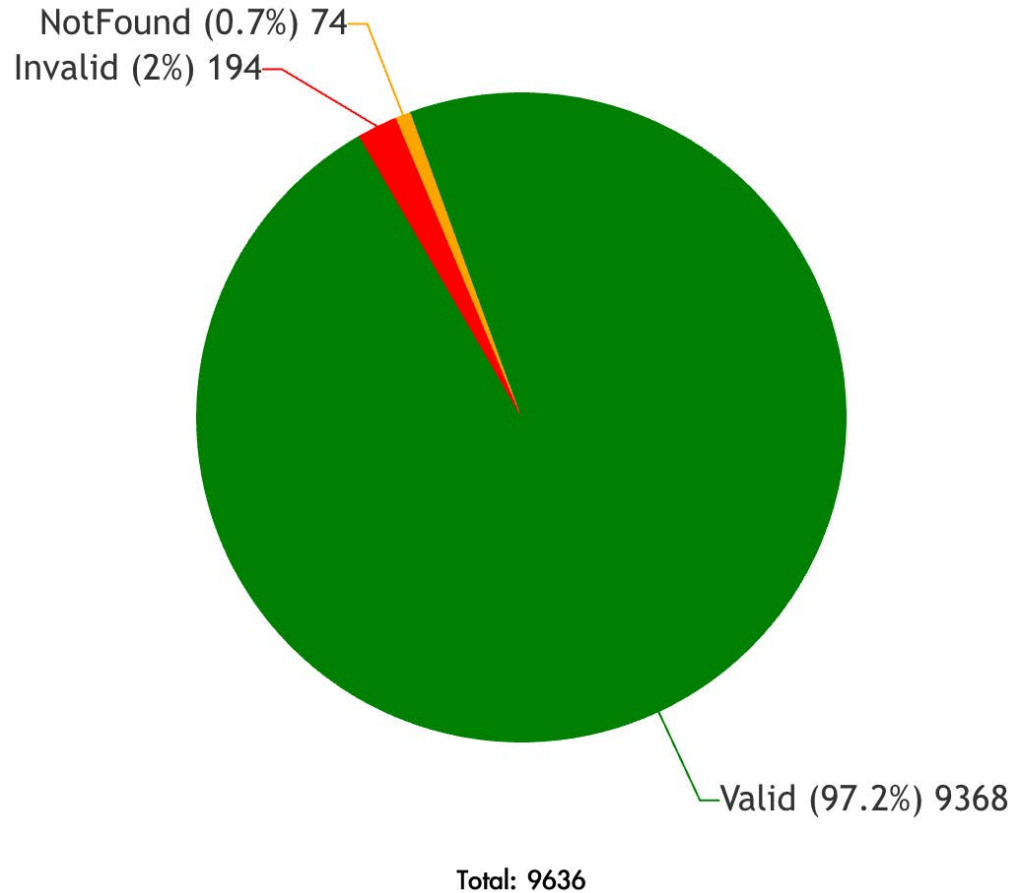
Data derived from APNIC by measuring mean value of IPv6 Capable over the last 7 days.

Top 30 List

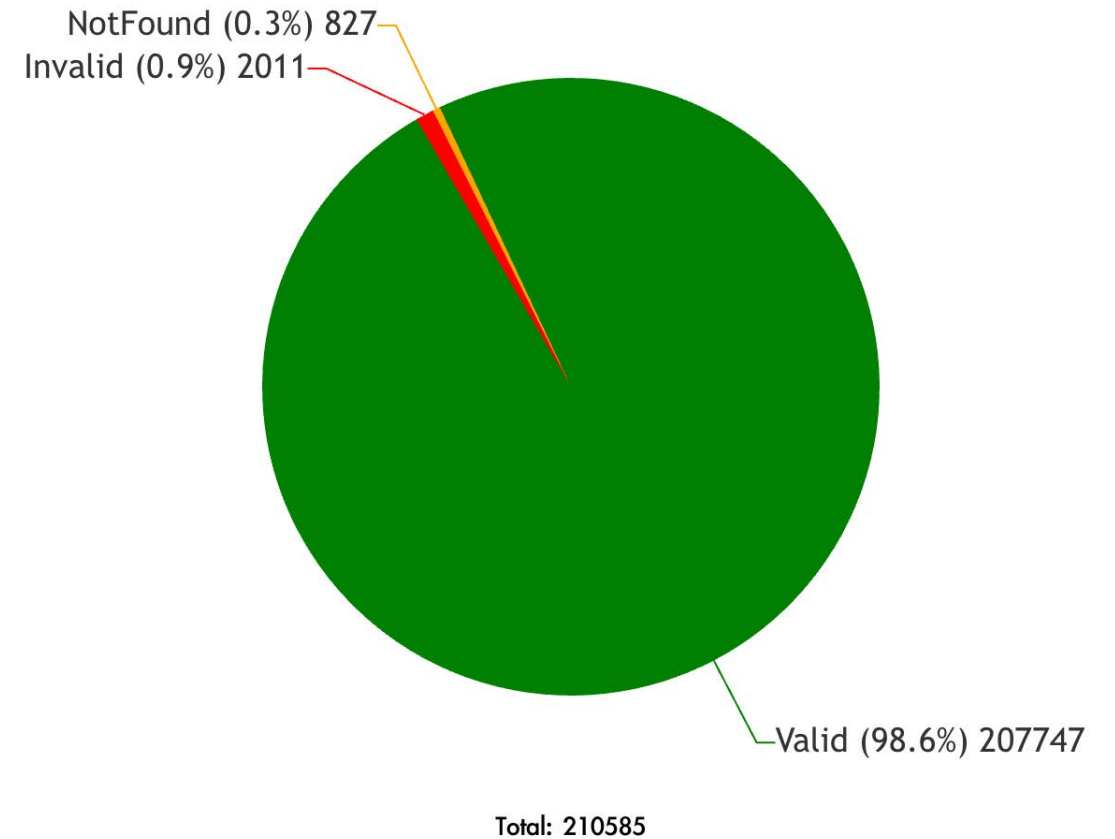


TWNIC RPKI Service

Number of Routing: IPv4 Valid Prefix 97.2%

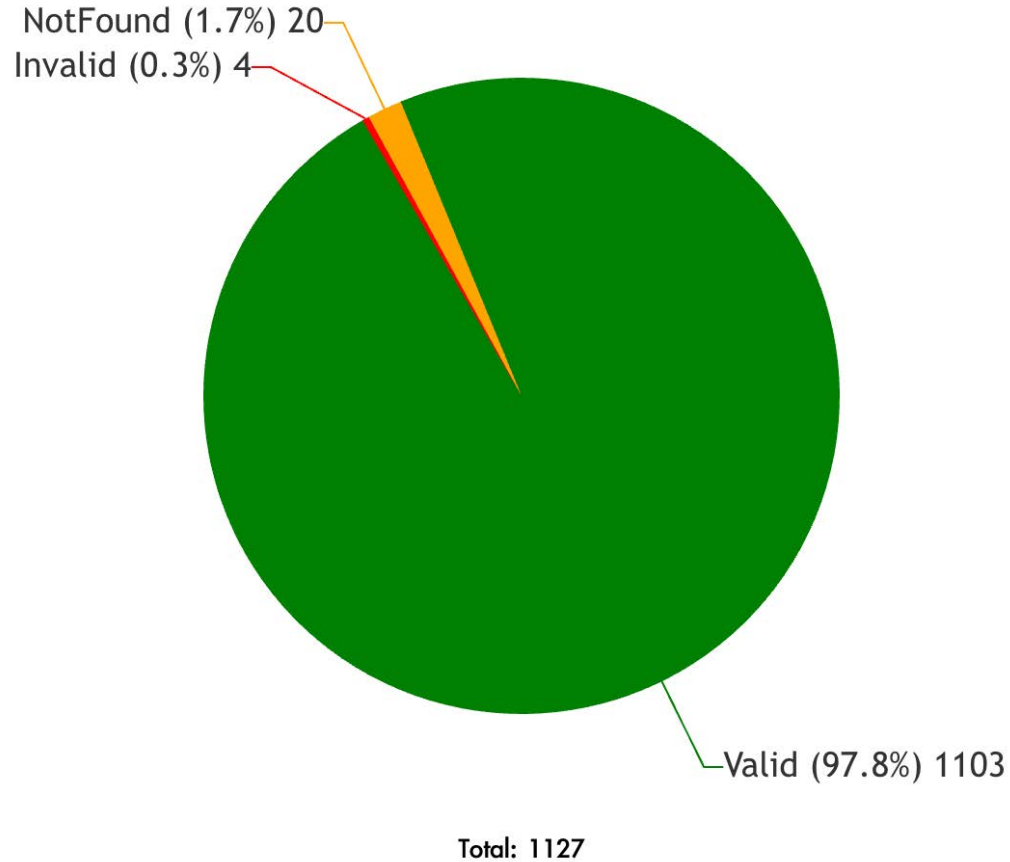


Number of Class C: IPv4 Valid Space 98.6%

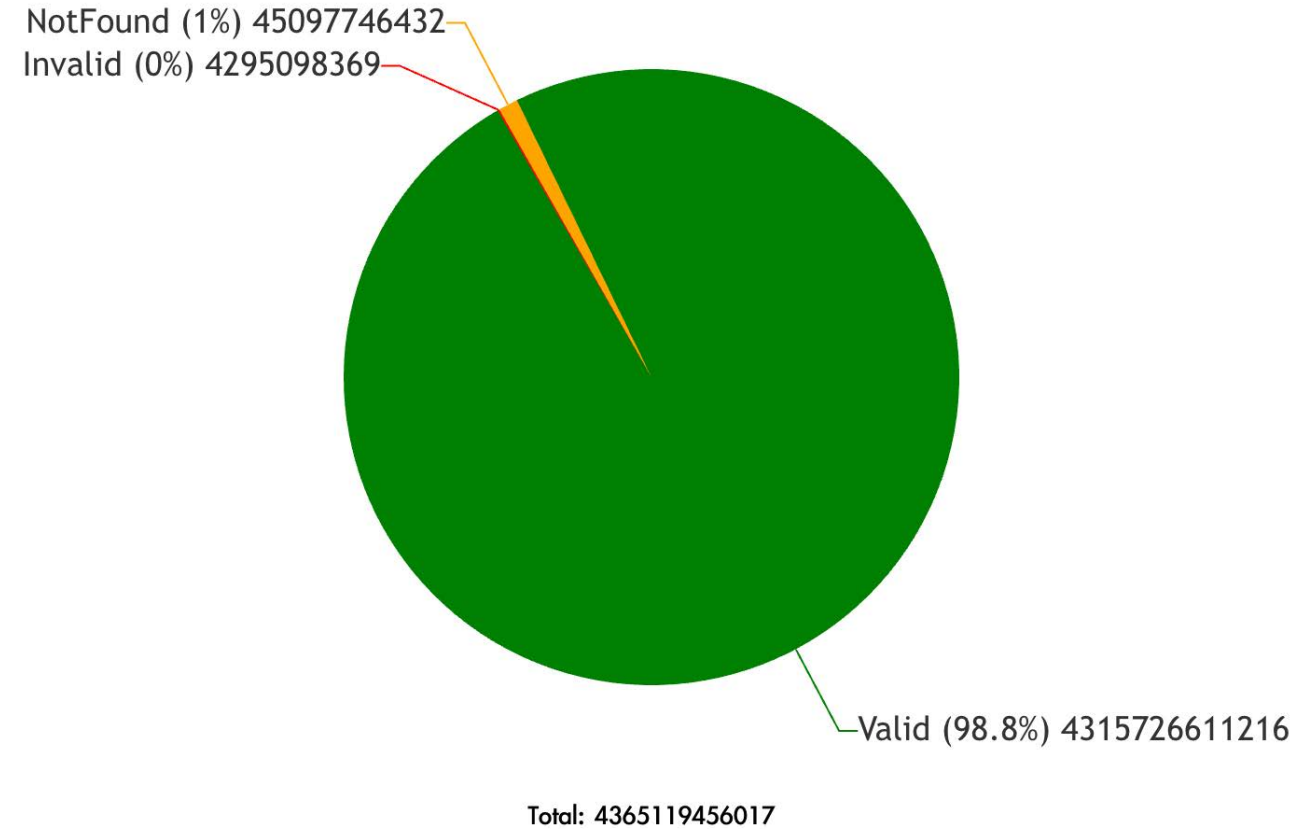


TWNIC RPKI Service

Number of Routing: IPv6 Valid Prefix 97.8%

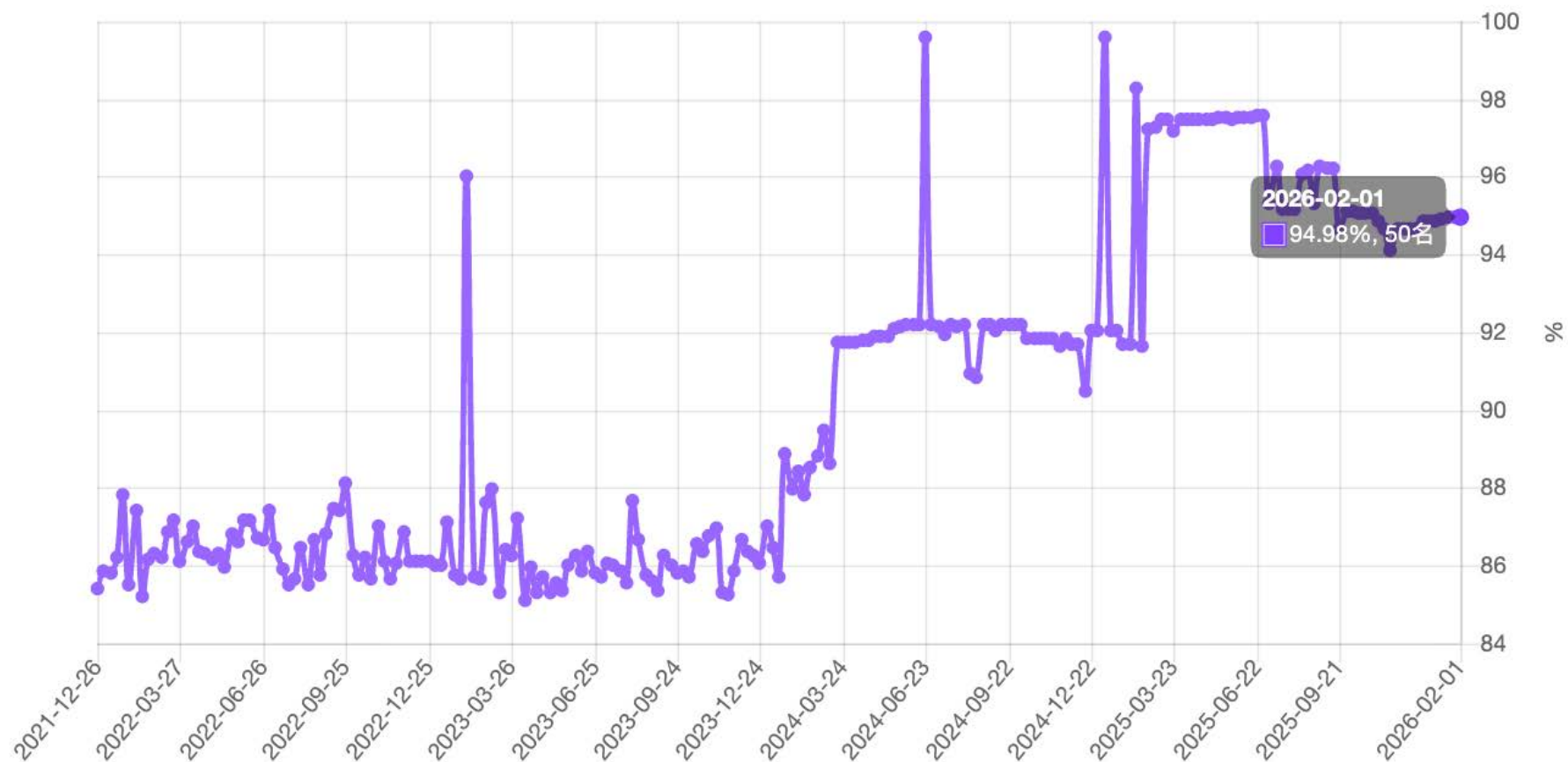


Number of /64: IPv6 Valid Space 98.8%



date: 2026/2/2

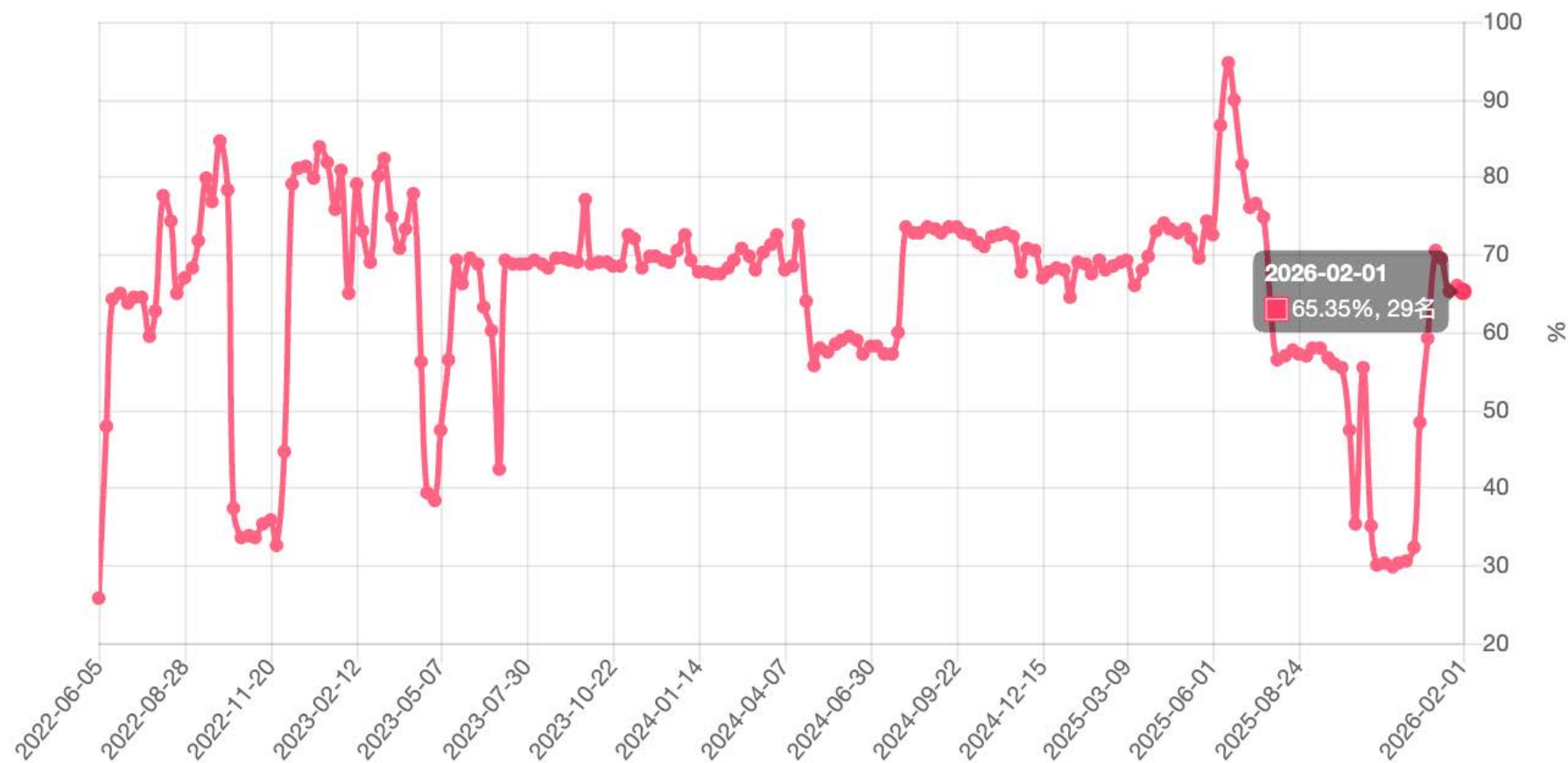
Taiwan RPKI ROA ratio: 94.98%



Data source: APNIC

<https://labs.apnic.net/measurements/>

Taiwan ROV ratio: 65.35%



Data source: APNIC

<https://labs.apnic.net/measurements/>

Abuse Contacts Validation

- There are 310 members(89.9%) finished the validation process on 2nd half 2025.

Execution Time	Total	Finished within 15 days	Finished within 30 days	Total Finished	Unfinished
2025/10/28 11:20:00	345	173	225	310	35

- **Validation Policy:** Executes every half-year; members must complete validation **at least once a year**.
- **2025 Achievement:** Successfully ensured **100% Compliance**, with all IP members completing at least one validation in 2025.
- **Strict Enforcement:** Unfinished validations lead to restricted RMS access or resource reclamation to ensure a reachable network abuse contact point.

New Feature: Integration of TWNIC RMS and MyAPNIC

- **Whois Management**

- Functionality: TWNIC IP Members can query and update their current IP address and ASN registration data within both the RMS system and APNIC Whois directly through the RMS interface.
- Value: Ensures the accuracy and timeliness of resource registration data across both local and regional registries.

- **Self-Service Reverse DNS (rDNS) Management**

- Feature: Members can independently configure and maintain PTR records within the TWNIC RMS system.
- Value: Enhances network service identity and simplifies the application process by eliminating previous manual procedures.

- **Route Object Maintenance**

- Feature: Supports the creation and modification of Route/Route6 Objects.
- Value: Clearly defines the routing announcement relationship between IP address blocks and Origin ASes, strengthening the accuracy of global routing information.

2025 TWNIC IP Member Meeting

Date: December 23, 2025



Core Focus: Network Infrastructure, Website Resilience, and AI Challenges

- **IP Resource Management & Service Optimization:** Updates on the RMS system, including Abuse Contact verification, Network/Whois management, and future plans for Reverse DNS and Route Objects.
- **Promoting "Modern Protocol Websites":** Introduction to key resilience indicators: IPv6, QUIC, RPKI, HTTPS, DNSSEC, and GreenDN certifications.
- **Cybersecurity Insights & Data Sharing:** Presentation of Honeypot project results and the release of downloadable SSH intrusion observation data for members.
- **Keynote: "The IT Era of AI: Reverse Division of Labor":** Speaker: Tsai Chi-yen, CIO of Taiwan Mobile. Topic: How AI drives organizational evolution and value reshaping.
- **Member Roundtable:** Open discussion, Q&A, and feedback session.

TWNIC IP Training & Capacity Building

- We cooperated with APNIC to hold 2025 TWNIC-APNIC Joint Training(H2).

SN	Location	Date	Mode	Topic	Participant
1	Taipei	12/8-12/10	Onsite	Network Security Workshop	31

- We held 4 local IP network communication trainings in 2025.

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
3	Yunlin	10/3	Onsite	IPv6 IoT, SDN and SRv6	29
4	Tainan	12/12	Onsite	IPv6 Network Security Protection Technology	29

Conclusions & Future Works

- TWNIC has added 37 new members in 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 continually encourage and assist Taiwan's ISPs and service providers in managing ROAs and ROV.

Thank You.

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