The background features a large, solid orange rectangle. Overlaid on it are two circles: a white circle in the upper left and a light blue circle in the lower right. Both circles are partially obscured by a diagonal band of color that runs from the top-left towards the bottom-right. This band consists of three horizontal stripes: a light orange stripe at the top, a tan stripe in the middle, and a light beige stripe at the bottom.

# APNIC 61 TWNIC Update

Tim Wang

# Outline



STATISTICS OF TWNIC

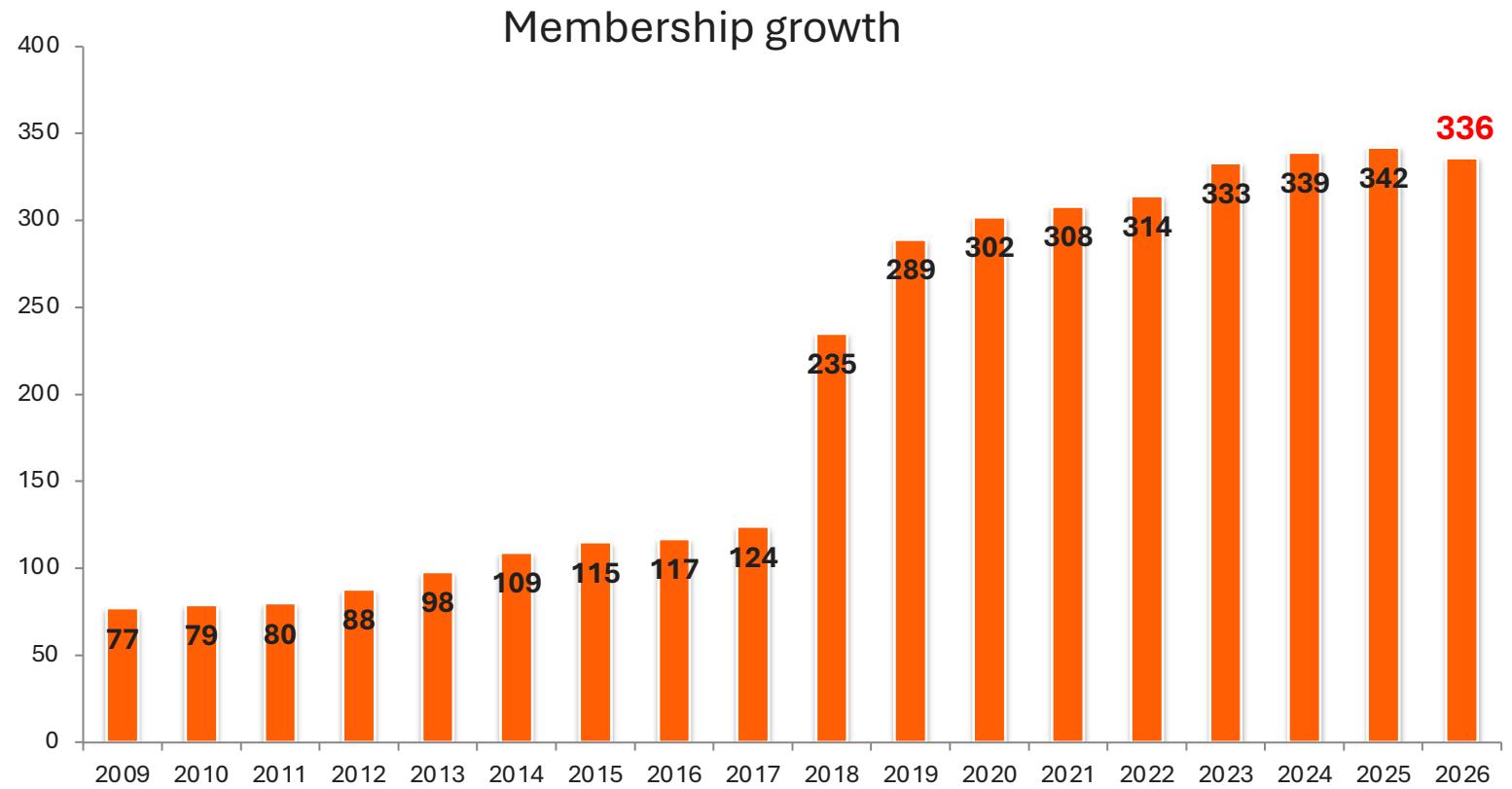
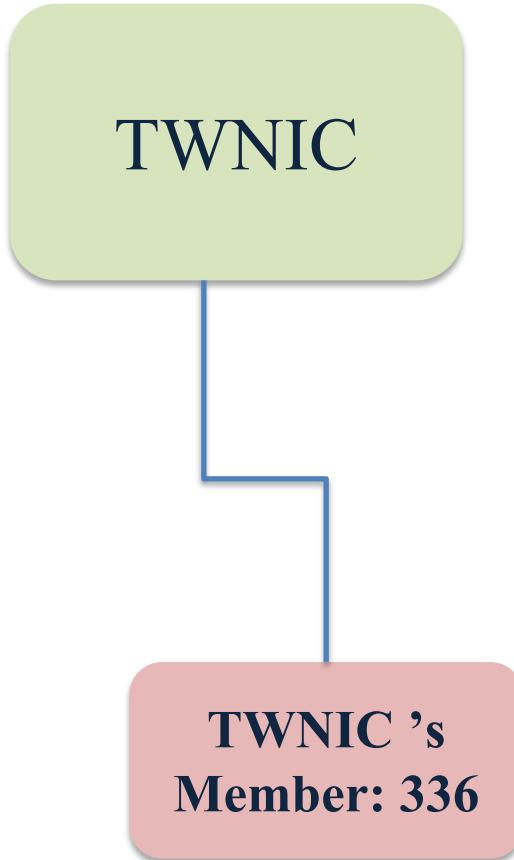


TWNIC'S ACTIVITIES  
AND TRAINING  
PROGRAMS



CONCLUSIONS &  
FUTURE WORKS

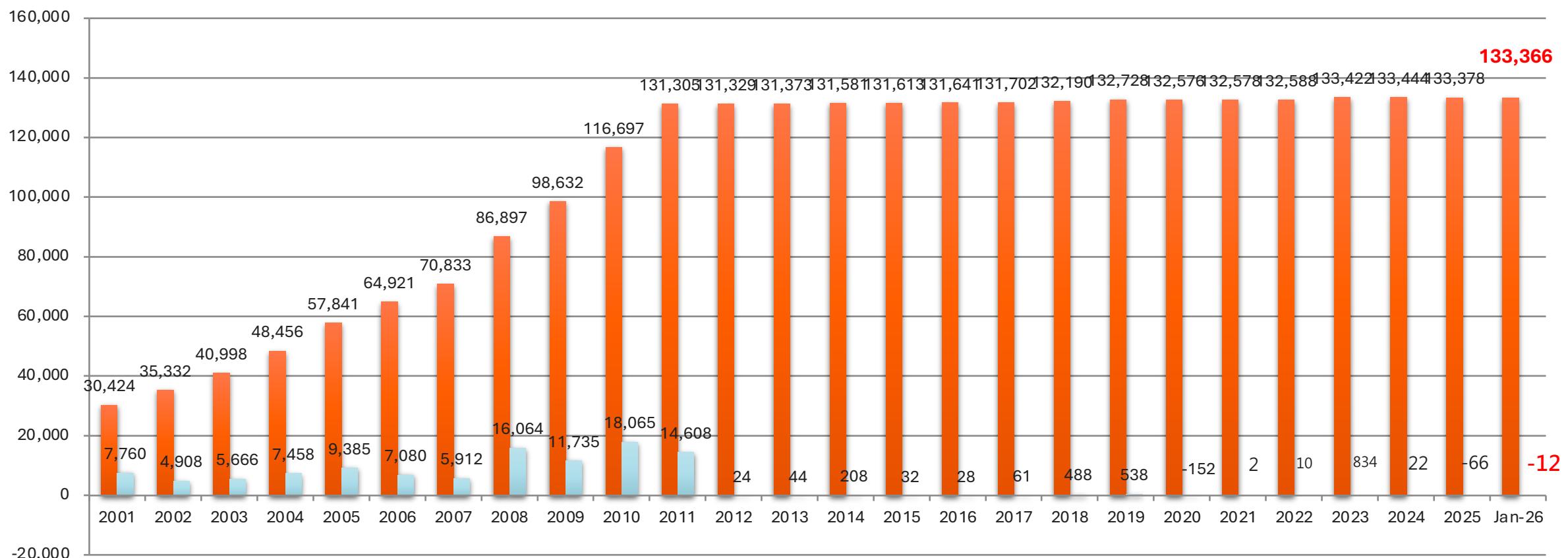
# Statistics of TWNIC's IP members



# IPv4 Address Allocation

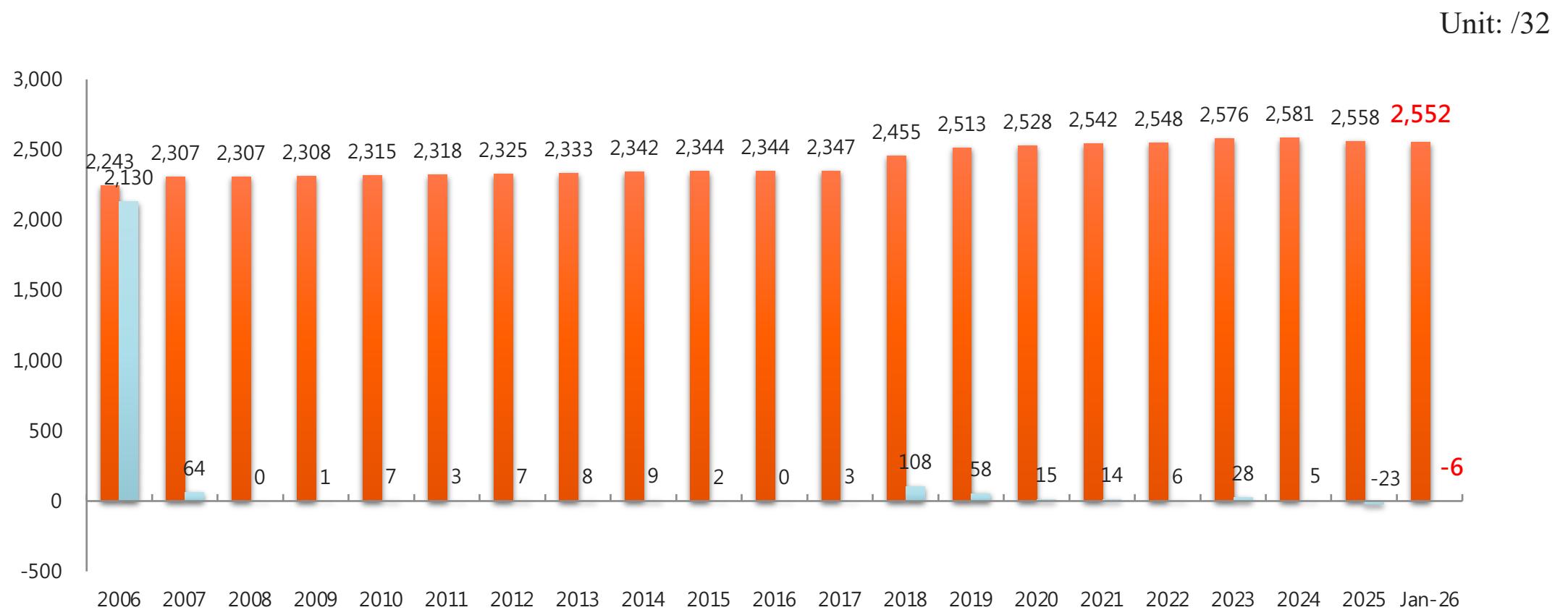
- TWNIC has allocated 133,366 /24s IPv4 addresses.

Unit: /24



# IPv6 Address Allocation

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



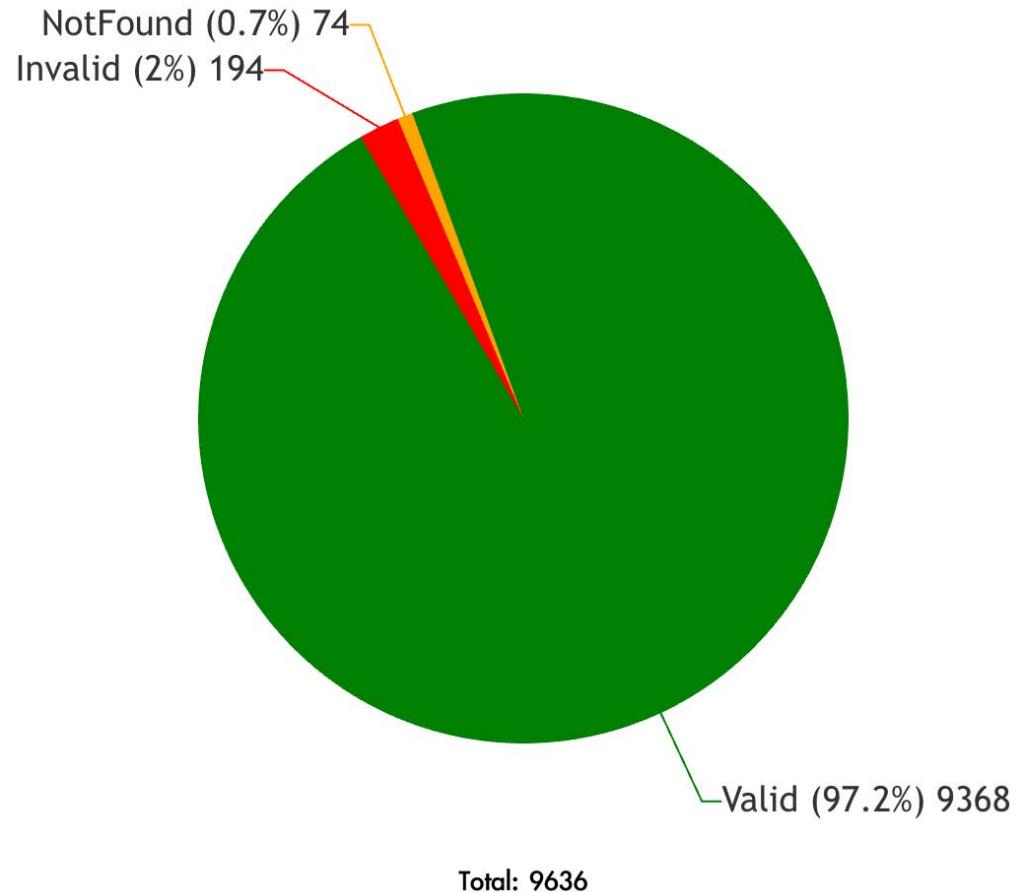
# Taiwan IPv6 User Availability

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

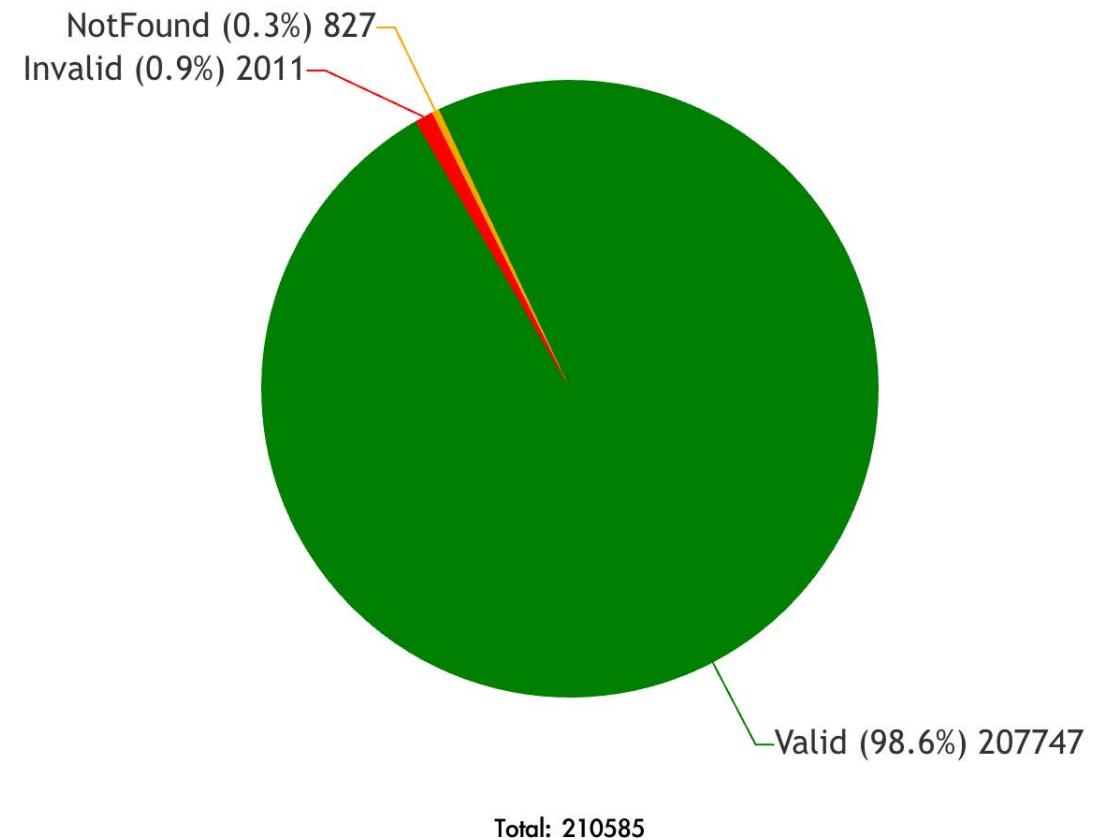


# TWNIC RPKI Service

Number of Routing: IPv4 Valid Prefix 97.2%

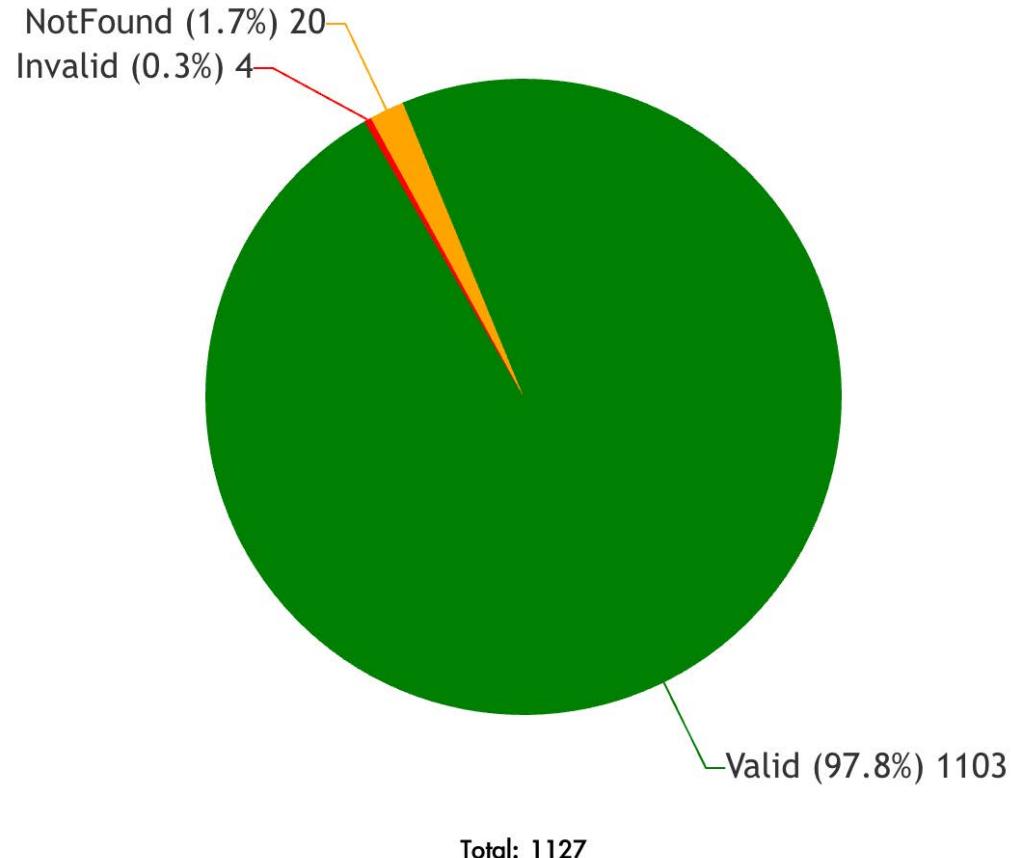


Number of Class C: IPv4 Valid Space 98.6%

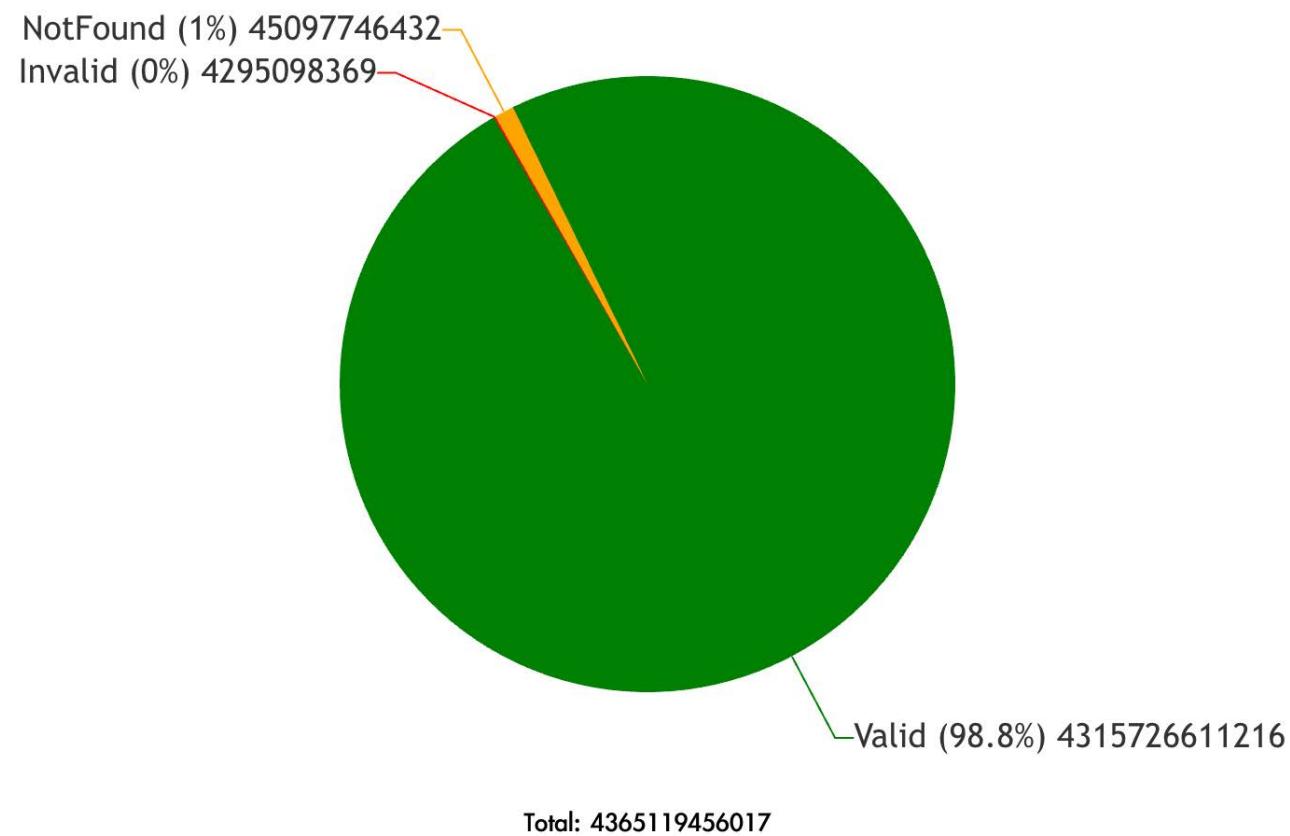


# TWNIC RPKI Service

Number of Routing: IPv6 Valid Prefix 97.8%

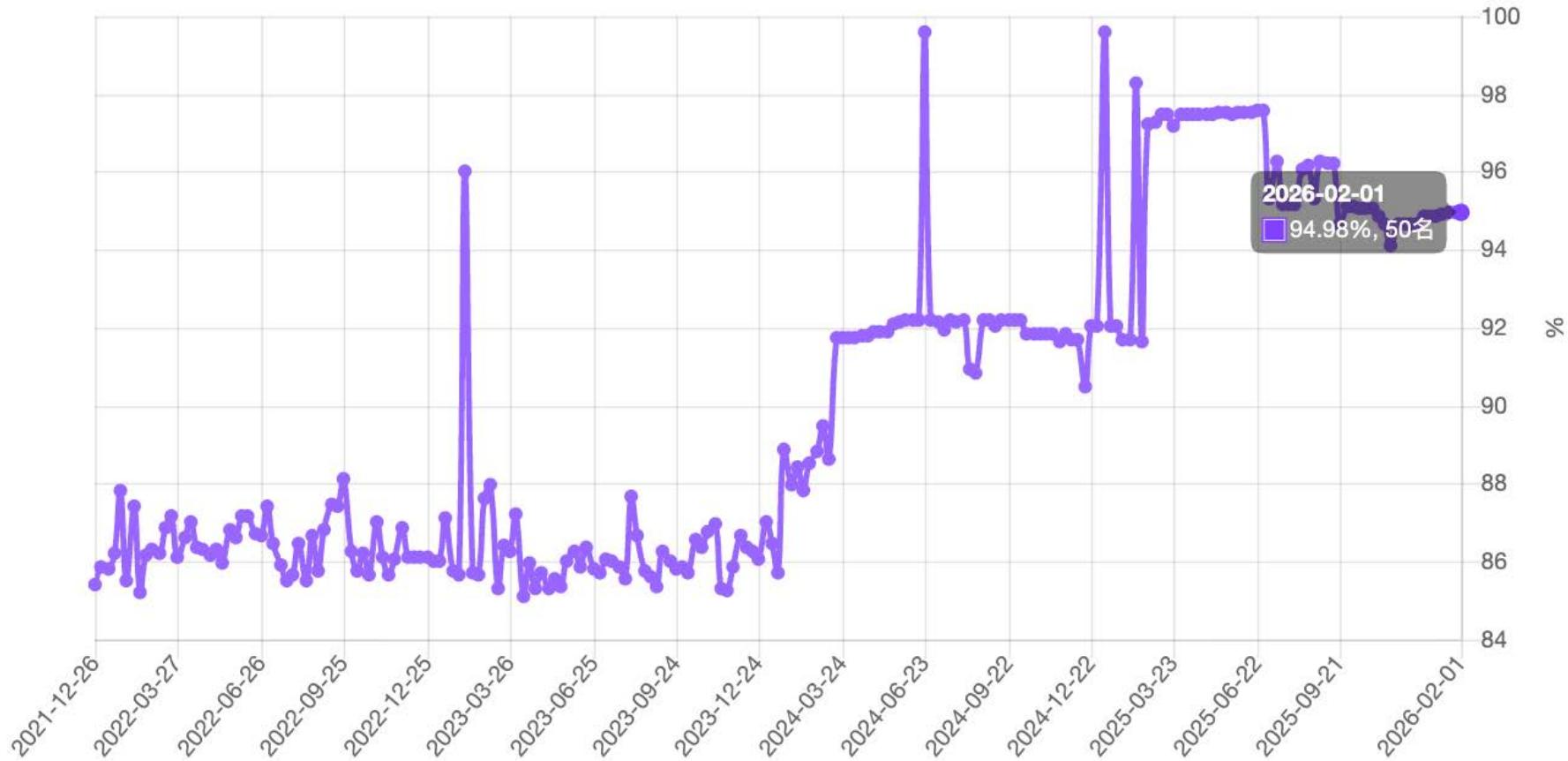


Number of /64: IPv6 Valid Space 98.8%



date: 2026/2/2

# Taiwan RPKI ROA ratio: 94.98%



Data source: APNIC

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

# Taiwan ROV ratio: 65.35%



# 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-yan, 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.

•twnic