

TWNIC OPM Update and Issues

NIR SIG, 19th APNIC Meeting

Ching-Heng Ku

chku@twNIC.net.tw

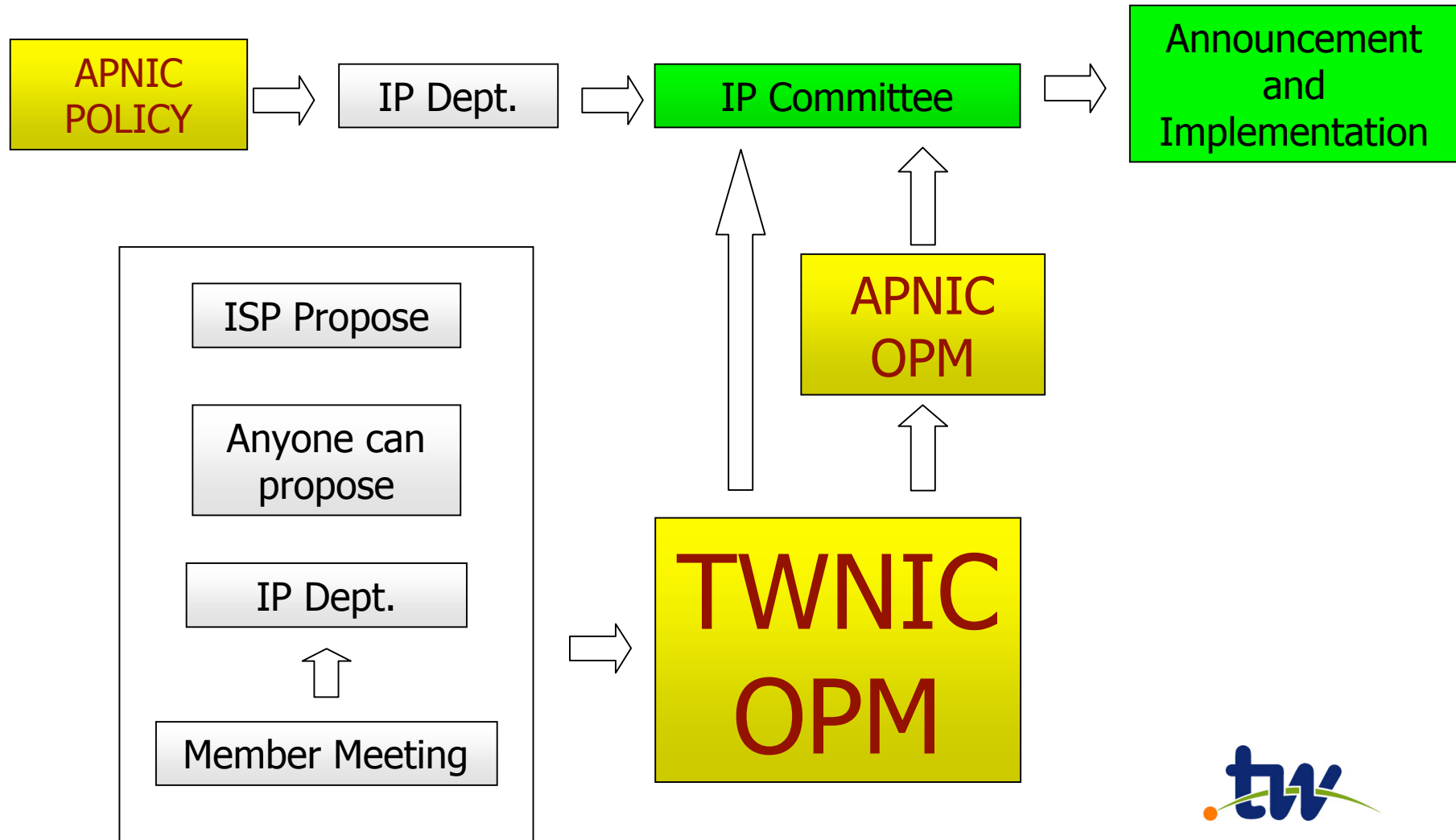
TWNIC

Outline

- TWNIC 3rd OPM
- TWNIC Activities
- Taiwan Internet Connectivity Map



TWNIC policy making process



TWNIC Open Policy Meeting

- Hold twice a year
- Average 50 attendee
- Attendees – ISP, ICP, Vendor, Academic Institute ...
- Registration – Open to anyone
- Session – Address SIG,
Database and Reverse DNS SIG,
Routing SIG



TWNIC 3rd OPM in conjunction with APNIC Training

- Date : 23-24 November, 2004
- Place : Chinese Culture University
- Attendees : 50 attendees
- Presentations : Informational 6, Proposal 4
- Agenda :

11/23	11/24
APNIC Training	OPM KEYNOTE
APNIC Training	SIG1 Address SIG
APNIC Training	SIG2 Routing SIG
APNIC Training	SIG3 DB & Reverse DNS SIG



11/23 APNIC Training

➤ **Topic:**

➤ Internet Resource Management Essentials

➤ **APNIC speaker:**

➤ Ms. Miwa Fujii, Training Officer

➤ Mr. George Kuo, Internet Resource Analyst



11/24 TWNIC OPM Keynote Speech

- **Have You Say Cascaded!**
 - **Mr. Maemura Akinori / APNIC EC Chair and JPNIC IP Director**
- **IP Policy in APNIC and what about TWNIC?**
 - **Kuo-Wei Wu / APNIC EC**
- **IP Address Policy Mechanism Constituent's Practice in Taiwan**
 - **Kenny Huang / ICANN AC**



11/24 Keynote Speaker



**Ms. Ai-Chi Lu,
TWNIC Deputy Executive Director**



**Mr. Maemura Akinori,
APNIC EC Chair and JPNIC IP Director**



**Mr. Kuo-Wei Wu,
APNIC EC**



**Mr. Kenny Huang,
ICANN AC**

11/24 SIG session chair and co-chair

➤ SIG 1, Address SIG

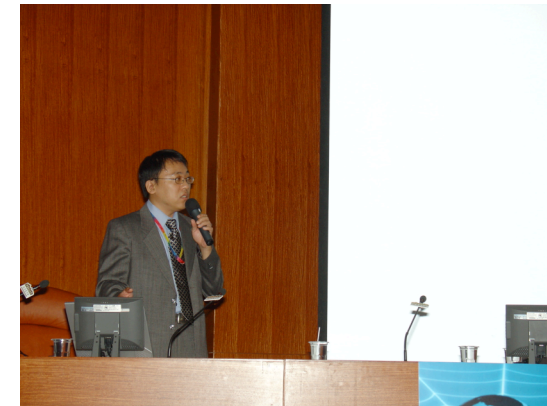
- Chair: Mr. Yi Lee / Seednet
- Co-chair: Mr. Mars Wei / NCIC

➤ SIG 2, Routing SIG

- Chair: Mr. Chung-Yung Kang / HiNet
- Co-chair: Mr. Frank Fu / GTBC

➤ SIG 3, DB and Reverse DNS SIG

- Chair: Mr. J. J. Lee / TTN



SIG 1: Address SIG

- **Proposal 1: IP address transfer procedure for LIR customers**
- **Motivation:** When the mergers, acquisitions, and takeovers of LIRs, what's the guideline for the transfer of the address space for the LIR.
- **Discussion:**
 - APNIC policy document: Policies for IPv4 address space management in the Asia Pacific region
 - **9.9 Transfer of address space**
 - **12 Mergers, acquisitions, and takeovers of LIRs**
 - Does LIR need the policy or the guideline for the partial transfer of address space?
 - Does LIR need the agreement of customers?
 - Does LIR need to confirm the transfer scale to follow the minimum allocation policy?
 - Is there any problem in the routing aggregation?
 - How to charge the annual fee?
- **Consensus:**
 - This issue will form a working group to survey more opinions of LIR.
 - The working group will draft a guideline for this transfer issue in the next TWNIC OPM.



SIG 1: Address SIG

- **Informational: IP HD Ratio report**
- **Motivation:** APNIC proposed a new formula to judge the IPv4 address utilization.
- **Discussion:**
 - What is the HD ratio utilization and its requirement using the HD ratio formula
 - How to handle the efficiency and the requirement in the hierarchy management of IP space
- **Consensus:**
 - TWNIC survey the opinion of ISP about the 80% utilization v.s. HD ratio.
 - Consider the affect of the HD ratio for all ISPs in Taiwan.



SIG 2: Routing SIG

- **Informational 1: The status of Taiwan internet looking glass**
- **Motivation:** There haven't yet the public looking glass service for ISPs in Taiwan. Looking glass service can decrease the difficult in tracing routing problems.
- **Suggestions:**
 - ISP could establish its secure and public trace route server for other ISP to acquiring the routing information by himself to decrease the trouble shooting effort.
 - Next OPM meeting can invite the Sonet company to share the experience and the solution in the security issue of looking glass service.

SIG 2: Routing SIG

- **Report 2:** The notification procedure of the new IPv4 allocation in the Bogon List
- **Description:** To introduce the notification procedure of the IP allocation in IANA/APNIC /TWNIC and how to handle the change of the bogon list in TWNIC.
- **Consensus:**
 - Because the Bogon list issue affect the ISP daily operation a lot, we suggest TWNIC to keep tracking the new notification procedure for Registry/Registrar and mail list for the new bogon list.
 - TWNIC will present the status report for the notification solution from the bogon list issue in the next TWNIC OPM.



SIG 2: Routing SIG

- **Report 3:** The introduction of the IPv6 Multicast service
- **Topics:**
 - To introduce the difference of the multicast between IPv4 and IPv6.
 - To introduce the multicast service in Hinet IPv6 backbone.
- **Concensus:**
 - The interested ISP or individual person are welcome to test this service and provide any suggestion.



SIG 3: DB and Reverse DNS

SIG

- **Proposal 1:** TWNIC WHOIS database and its privacy issue
- **Topics:**
 - To introduce the privacy issue of the data in the WHOIS database related to the Taiwan privacy law.
 - To introduce the global policy in the WHOIS database and the requirement of APNIC WHOIS database.
- **Suggestions:**
 - Suggest continually to identify the privacy issue in the WHOIS database to match the related law in Taiwan.



SIG 3: DB and Reverse DNS

SIG

➤ **Proposal 2: WHOIS DB query**

➤ **Topics:**

- Propose to change the data flow of the WHOIS customer assignment. LIR provide query interface to access its data in the WHOIS database.

➤ **Suggestions:**

- The presenter needs to provide the open source of the query software in the client and server architecture for the testing in the interested ISP.
- When the utilization statistics of IP space is needed, the architecture needs to provide the batch function to upload the WHOIS data.
- The security issue of the Client/Server software needs be solved for the usage of LIR.



Meeting acquaintance

- SIG Chair/Co-Chair successfully lead the discussion activity.
- The attendance and the opinion from Mr. MAEMURA AKINORI and APNIC trainer make the meeting more successful.
- Using this bottom-up procedure in the OPM meeting, some policy issues are well discussed and made consensus.



Suggestions and Follow-up work

- The more opinions can be acquired through the SIG discussion board.
- The SIG chair/co-chair working meeting needs be held to enhance the SIG function.
- ISP can be encouraged to propose more policy or informational proposals.



TWNIC activities

- With TWNIC Members
 - 3 TWNIC member meeting
 - 2 Open Policy Meeting on June/Nov
 - 2 member training – IP policy and request tutorial
 - 2 network workshop – security workshop conjunction with CISCO Taiwan
 - 5 IP-Committee meeting.
- Attend the 2004 Internet Week and JPNIC OPM in Yokomaha, Japan on December 2004.
 - Know from JPNIC OPM procedure and feel discussion atmosphere
 - Visit JPNIC



TWNIC Internet connectivity map

- Period survey : quarter
- Goal : provide public with a fair and objective overview of existing bandwidth in Taiwan
- Survey target : ISP, IX, ICP in Taiwan
- Come out :
 - On-line web flash map
 - publish show bill
 - <http://map.twnic.net.tw>



Thank You

<http://www.twnic.net.tw>

