New IPv6 policy implemented

APNIC implemented the new IPv6 policy on 1 July 2002. This new policy is intended to improve access to and deployment of IPv6 address space. The allocation criteria have been simplified and the initial minimum allocation has been increased to /32.

The main features of the new IPv6 policy are:

- Initial allocation criteria simplified
- Size of the initial (minimum) allocation increased
- Allocations larger than the minimum allocation can be obtained
- Existing IPv4 infrastructure recognised
- Clearer definition of terms, such as "end site" and "utilisation"
- New method of measuring the threshold at which members can apply for more address space

IPv6 policy comparison
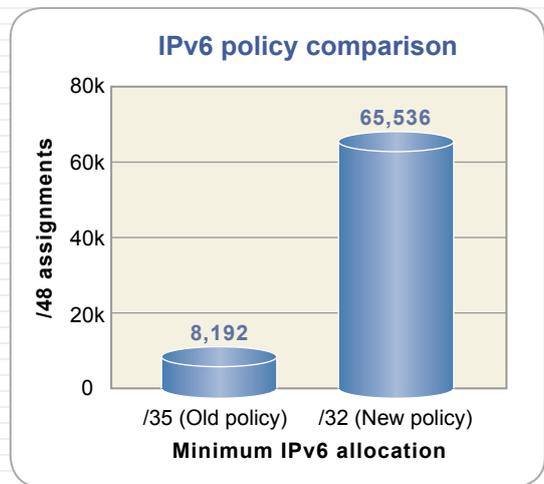
Policy changes

The new IPv6 address policy has been accepted in all Regional Internet Registry (RIR) regions - APNIC, ARIN, and the RIPE NCC. It replaces the provisional IPv6 policy launched in 1999. The policy was accepted by consensus at APNIC's 13th Open Policy Meeting held in Bangkok in March 2002. The RIRs are working to a similar implementation schedule to make the transition from the previous policy as smooth as possible.

Previously, IPv6 address allocations were made under the bootstrap criteria of the provisional IPv6 policy, which was intended to operate on an interim basis until operational IPv6 experience could be gained. The new policy is intended to improve access to IPv6 address space, avoid fragmentation of address ranges, and reduce unnecessary wastage of address space.

Minimum allocation

	Old IPv6 policy	New IPv6 policy
Minimum allocation	/35	/32
Available address space	13 bits	16 bits
"End-site" /48 assignments possible	8,192	65,536

Allocation criteria

- Network plan for at least 200 /48 assignments to other organisations within 2 years must be demonstrated
- Applicant must be an APNIC or NIR member and should not be an "end user"
- No longer necessary to have 3 BGP peers in the default free zone
- Organisations holding /35 allocations under the provisional policy are entitled to request their allocation be upgraded to /32

2

New IPv6 policy documents

The new policy and IPv6 application form (text only) are available at:

http://www.apnic.net/services/ipv6_guide.html

Amended IPv6 fee structure

A general principle behind APNIC's fee structure is that members receiving the minimum allocation of address space should be assessed as Small members. To maintain this principle under the new IPv6 policy some amendments have been made to the fee structure.

- Members receiving /32 allocations will be assessed under the Small category

- Holders of /35 allocations increasing their allocation to a /32 will also be assessed under the Small category

- Higher categories will also come into effect as the allocation increases in size, on the same 3-bit intervals currently used in IPv6 and IPv4

The membership tier will continue to be determined on the basis of the larger address holding (see table below).

Membership tier	Amount of IPv4 address space	Amount of IPv6 address space
Very Small	up to and including /22	up to and including /35
Small	>/22 up to and including /19	>/35 up to and including /32
Medium	>/19 up to and including /16	>/32 up to and including /29
Large	>/16 up to and including /13	>/29 up to and including /26
Very Large	>/13 up to and including /10	>/26 up to and including /23
Extra Large	>/10	>/23

By Anne Lord, Policy and Liaison Manager *<anne@apnic.net>*

Editorial

Dear reader,

In this *Apster* we've reported on some of the main initiatives that the APNIC Secretariat has been pursuing since the last Open Policy Meeting was held in March 2002 in Bangkok, Thailand. Most importantly, the new IPv6 policy, common to all Regional Internet Registries (RIRs), was implemented on 1 July 2002. After a long gestation period the new policy replaces the provisional IPv6 policy. Our cover story describes the policy implementation and summarises some of the main policy changes.

Our feature article this month on the upgrade of the APNIC Whois Database, scheduled for 20 August 2002, is an important one for regular Whois users. It provides details of the test Whois server which is now available, allowing users to prepare for the upgrade.

At the moment the Secretariat is preparing for the next APNIC meeting in Kitakyushu, Japan, 3-6 September 2002. APNIC members and friends are invited to the meeting

APNIC joins ICT R&D Grants Programme

APNIC has recently joined IDRC's Pan Asia Networking (PAN)* Programme and the Asia Pacific Development Information Programme (APDIP) to establish a joint research and development grant fund to support small R&D projects related to Internet infrastructure development in the Asia Pacific region.

The fund provides for small grants of up to US$9,000 and project grants of up to US$30,000 each. They will be awarded on a competitive basis to successful institutions from the Asia Pacific region.

The administration of the programme will be carried out by the Asian Media Information and Communication Centre (AMIC), of Singapore. A very strong advantage of this arrangement is that IDRC generously covers the substantial administrative costs of the grant programme. This means that 100% of APNIC's contribution is available for grants, and APNIC does not have to allocate staff to organise the competitive grants process.

By joining the fund APNIC hopes to encourage R&D activities pertaining to Internet infrastructure development and management, technical and administrative policy, and Internet resource management, particularly relating to IP addresses and other numeric Internet resources. APNIC encourages member organisations, including ISPs, academic networks, and National Internet Registries to submit R&D proposals to the programme.

The APNIC allocation to the programme grew out of the Member and Stakeholder survey conducted by KPMG in 2001. Through the Member survey, it was suggested that APNIC outsource more activities within the region, and form more cooperative relationships with other institutions.

The deadline for submission of completed proposals is 15 July 2002. The grants committee will screen proposals during September and the results will be made known in early October 2002. A small committee comprising representatives from each of the participating organisations will oversee the selection and approval process.

For more information about the grants, see the Guide to the Programme at:

http://www.pan.org.sg/grants

For information about APNIC's role and interests in this programme, please email me at <dg@apnic.net>.

*PAN is a program initiative of the International Development Research Centre (IDRC) of Canada, which helps researchers and communities in the developing world find solutions to their social, economic, and environmental problems.

By Paul Wilson, Director General *<dg@apnic.net>*

to participate in the discussions or to attend the training and tutorial sessions. Details of APNIC 14 are provided on page 4.

Apster is mailed to all APNIC members. If you would like to receive a personal copy, add your name to our *Apster* mailing list. See:

http://www.apnic.net/apster

If you have any suggestions or articles you would like to contribute, please email me at <apster@apnic.net>.

Best wishes

Robert Winkler
Editor

APNIC invites APNIC members and friends to attend the 14th APNIC Open Policy Meeting in Kitakyushu, Japan, 3-6 September 2002. The meeting will be held at the Kitakyushu International Conference Center and will be hosted by the Japan Network Information Center (JPNIC).

▲ View of Kokura Castle from the Japanese garden

Kitakyushu

The host city, Kitakyushu, is located midway between Tokyo and Shanghai. The city has served as a gateway for trade with Asia since ancient times. Five cities combine to form modern Kitakyushu, a city of one million people, which continues to reap the benefits of its proximity to the Asian continent. The city is one of Japan's largest centres for international trade and industry.

The central area, Kokura, contains the main transportation terminal (JR Kokura Station) and the Kitakyushu International Conference Center (a five-minute walk from Kokura Station), where the APNIC meeting will be held. Kitakyushu also has a number of local attractions for visitors, including Mojiko Retro, Spaceworld and Kokura Castle.

To assist meeting delegates, JPNIC has published a range of local information about visiting and traveling to Kitakyushu. To access this information and details of visa requirements, accommodation options and a hotel booking form select the "Visitor info" option on the meeting website at:

http://www.apnic.org/
meetings

Join us at APNIC 14

APNIC meetings are a valuable opportunity to meet and network with some of the world's leading technical Internet experts in a relaxed atmosphere. APNIC 14 will include:

- APNIC training
- Tutorials (Multihoming, IPv6, Database migration, IRR)
- Special Interest Groups (SIGs)
- Birds of a Feather sessions (BOFs)
- Hostmaster consultations
- APNIC Member Meeting (AMM)

Register now

Delegates are invited to register for APNIC 14 as soon as possible. An early bird fee is available until Friday 2 August 2002 and offers a saving of US$150 for the Open Policy Meeting. Attendance at the AMM on 6 September 2002 is free of charge for APNIC members.

Call for presentations

This is an opportunity to be involved in the discussion of important Internet governance issues and to contribute to formulation of polices in an open consensus environment. APNIC encourages those with an interest in the Internet in the Asia Pacific region to submit proposals. Discussions from previous meetings are available at:

http://www.apnic.net/meetings/archive

Session	Chair	Email
Address Policy SIG	Takashi Arano	sig-policy-chair@apnic.net
Database SIG	Xing Li	sig-db-chair@apnic.net
IX SIG	Philip Smith	sig-ix-chair@apnic.net
IPv6 SIG	Jun Murai	sig-ipv6-chair@apnic.net
Reverse DNS SIG	Paul Gampe	sig-dns-chair@apnic.net
Routing SIG	Philip Smith	sig-routing-chair@apnic.net
NIR meeting	Maemura Akinori	nir-chair@apnic.net

Proposals to make presentations at the SIGs or the NIR meeting should be emailed to the respective Chair with a copy to **<sig@apnic.net>** by 1 August 2002.

As the National Internet Registry (NIR) responsible for IP address management within Japan, JPNIC plays a central role in the management of the Internet. By hosting the APNIC Open Policy Meeting, JPNIC is fostering knowledge transfer and dialogue between the global and Japanese Internet communities and is encouraging the ongoing development of the Internet in Japan.

▲ APNIC 14 will be held at the Kitakyushu International Conference Center

Draft programme

	Tuesday 3 September		Wednesday 4 September		Thursday 5 September	Friday 6 September
8:30	Registration					
9:00	APNIC Training	Multihoming Tutorial	Reverse DNS SIG	Routing SIG	Address Policy SIG	APNIC Member Meeting
10:30	Morning Tea					
11:00	APNIC Training	Multihoming Tutorial	NIR Meeting	IX SIG	Address Policy SIG	APNIC Member Meeting
12:30	Lunch					
14:00	IPv6 Tutorial	Database Migration	Database SIG	IPv6 (Technical) SIG	ASO Meeting	APNIC Member Meeting
15:30	Afternoon Tea					
16:00	IPv6 Tutorial	IRR Tutorial	Address Policy SIG		ASO Meeting	APNIC Member Meeting
17:30	Break					
18:00	Newcomers' Orientation		BOF		BOF	BOF	
19:00	Opening Reception		Social Event			

The final meeting programme will be formulated after an open call is made for proposals to make presentations at the SIGs and the NIR meeting. For the latest version of the meeting programme see:

http://www.apnic.net/meetings

Call for sponsors

APNIC is offering sponsorship opportunities for the meeting. Sponsor contributions provide valuable support for APNIC meetings and help to ensure high standards and low registration fees. A choice of sponsorship options is available, providing an opportunity for sponsors to support this important event and promote their organisations within a strong community of Internet engineers and managers. The sponsorship package is available at:

http://www.apnic.net/meetings/14/sponsors

Address Council election

During October 2002, one Asia Pacific Address Council seat will become vacant, to be filled for the next three years by an individual nominated through this open call. The selection process will involve an open election to be held during the Open Policy Meeting in Kitakyushu on 5 September 2002. Nominations from individuals from the Asia Pacific region to fill the vacancy must be received by midnight GMT on 21 August 2002. The nomination form is available at:

http://www.apnic.net/meetings/14/ac/election-form.html

Internet security forum

Delegates will also have an opportunity to attend a two-day Internet Security forum being conducted jointly by the Asia & Pacific Internet Association (APIA) and the Asia Pacific Operators Forum (APOPS) from 2-3 September 2002 (for details see page 9).

By Vivian Yang, Events Manager <vivian@apnic.net>

APRICOT

■ **APRICOT 2003**

APRICOT 2003 will be held in Taipei, Taiwan 24-28 February 2003.

■ **APRICOT 2004**

The Request for Proposals for APRICOT 2004 is now available. Expressions of interest should be submitted by 1 August 2002 to:

apricot-rfp@apricot.net

Proposals should be submitted by 1 October 2002.

APNIC Whois Database upgrade

The APNIC Whois Database will be upgraded to version 3 on **20 August 2002**. The new Whois, based on the RIPE v3 database software, will provide many new and useful features.

Whois v3, APIRR and the APNIC Routing Registry

Whois v3 will enable the APNIC Whois Database to function as an Internet Routing Registry (IRR). However, the IRR function of the database will not be fully available until mid December 2002.

If you register routing objects in the APNIC Whois Database between 20 August and mid December, the objects will only be available via:

● APNIC Whois Database using tools such as RTConfig

● Routing Registries that mirror the APNIC Whois Database, such as the RIPE Whois Database

However, significant sources of routing configuration such as RADB will not change from the APIRR to the APNIC Whois Database until mid December 2002.

APNIC will not be offering a supported Routing Registry service as part of the APNIC Whois Database until mid December when APIRR objects will be transferred to the APNIC Whois Database.

To register objects in the global Routing Registry before mid December, please use the APIRR or another Routing Registry service. For information on the APIRR, see:

http://www.apnic.net/apirr

How to use the APNIC Routing Registry

Information on how to create and use objects in the APNIC Routing Registry will be made available closer to the mid December 2002 implementation date.

For the latest information on the APNIC Routing Registry, see:

http://www.apnic.net/apnic-rr

Introduction

On 20 August 2002, APNIC will upgrade its Whois Database to RIPE version 3 database software. When fully implemented, the new Whois v3 will provide:

● Enhanced syntax checking

● Better security features

● Improved response time and reliability

● More query options

● Integrated Internet Routing Registry (IRR) service*

● RPSL compliant database**

APNIC is releasing information about the upgrade via member mail-outs and email announcements to the sig-db and apnic-announce mailing lists (see subscription details below) as the project progresses.

How will Whois v3 affect you?

Most users should not be affected by the Whois v3 upgrade, but advanced users may experience some changes. Most Whois clients will still be able to access the new database, however, a new Whois client with v3 options is available for download at:

http://www.apnic.net/info/network.html

Whois v3 test server now available

A Whois v3 server is now available for testing, allowing users to prepare for the upgrade. APNIC asks all networks with objects registered in the APNIC Whois Database to test object templates and functions available in Whois v3 before the upgrade occurs.

The Whois v3 test server is available at: v3.apnic.net

Send requests to create, update or delete test objects to: auto-v3@apnic.net

For information on how to use the test server, see:

http://www.apnic.net/db/v3-test.html

If you need help testing Whois v3, please contact the APNIC Member Services Helpdesk by phone +61-7-3858-3188 or by email <v3test@apnic.net>.

Important

Changes made to the test database will NOT be copied to the APNIC Whois Database. All changes will be deleted at the end of the test period. Please ensure that you continue to make your regular updates to the APNIC Whois Database.

* The IRR will be fully integrated into the Whois Database in mid December 2002.

** RPSL (Routing Policy Specification Language) is an Internet standard notation for representing Internet routing information. For a description of RPSL, please see the article in the March 2002 edition of *Apster*, also available online at:

http://www.apnic.net/apster

Timeline

March 2002	RPSL compliant whois service announced by APNIC (rpsl.apnic.net)
May 2002	APNIC members notified of upcoming Whois v3 upgrade
1 July 2002	Whois v3 test server available for public testing (v3.apnic.net)
1 - 31 July 2002	Test server available to conduct queries and create, update, and delete objects
1 - 19 August 2002	Test server available to conduct queries only
20 August 2002	Whois v3 upgrade to be implemented (whois.apnic.net)
3 - 6 September 2002	Whois v3 discussions at Database SIG, APNIC 14, Kitakyushu, Japan
Mid December 2002	Internet Routing Registry (IRR) to be fully integrated with Whois v3

The table below lists the object types available in the APNIC Whois Database and summarises changes between the current Whois version 2 and the new Whois v3.

Comparison between objects in Whois v2 and Whois v3

Object		Description
Whois v2	**Whois v3**	
	as-block	Shows the range of AS numbers delegated to Regional and National Internet Registries. Used to stop unauthorised creation of **aut-num** objects.
as-macro		The **as-macro** object is replaced by **as-set** in Whois v3 .
	as-set	A group of Autonomous Systems with the same routing policies. The **as-set** object replaces the **as-macro** object available in Whois v2.
aut-num	aut-num	Contains details of the registered holder of an Autonomous System number and their routing policy for that AS.
community		The **community** object is replaced by **route-set** in Whois v3.
domain	domain	Contains details of in-addr.arpa (IPv4) and ip6.arpa (IPv6) reverse DNS delegations.
	filter-set	Defines the policy filter to be applied to a set of routes.
dom-prefix		A representation of CLNS address space and routing. **Note:** Not available in Whois v3.
inet6num	inet6num	Contains details of an allocation or assignment of IPv6 address space.
inetnum	inetnum	Contains details of an allocation or assignment of IPv4 address space.
inet-rtr	inet-rtr	Represents an Internet router within a routing registry.
	irt	Contains details of a Computer Security Incident Response Team (CSIRT) responsible for security incidents related to objects where it is referenced. **Note:** The **irt** object is not fully implemented yet. More information on how to use the **irt** object will be provided in the future.
key-cert	key-cert	Stores a PGP certificate for use with **mntner** objects for authentication when performing object updates.
mntner	mntner	Contains details of the authorised agent able to make changes to APNIC Whois Database objects. Also includes details of a process that verifies that the person making the changes is authorised to do so.
	peering-set	Defines a set of peerings listed in the object's peering attribute.
person	person	Contains details of a technical or administrative contact responsible for the object where it is referenced.
role	role	Contains details of technical or administrative contacts, as represented by a role, performed by one or more people within an organisation, such as a help desk or network operations centre.
route	route	Represents a single route injected into the Internet routing mesh.
	route-set	Defines a set of routes that can be represented by **route** objects or address prefixes. The **route-set** object replaces the **community** object available in Whois v2.
	rtr-set	Defines a set of routers.

Legend: Object related to allocation and assignment management   Object related to the Internet Routing Registry

Whois v3

8

Changes to the Whois Database

When the upgrade is implemented, all objects currently stored in version 2 will be automatically converted to Whois v3 compliant objects.

The changes to **objects** and *attributes* that relate to allocation and assignment management in Whois v3 include:

- **dom-prefix** deleted
- **as-block** added to prevent unauthorised **aut-num** creation
- **irt** added to provide details for a Computer Security Incident Response Team (CSIRT)
- *status* made mandatory in **inetnum** and **inet6num**
- *mnt-irt* added to **inetnum** and **inet6num**
- *mnt-by* made mandatory in all objects
- *referral-by* added to **mntner**
- *mnt-lower* made available in more objects
- *phone* made mandatory in **role**

The changes to **objects** and *attributes* that relate to the Internet Routing Registry in Whois v3 include:

- **as-macro** replaced by **as-set**
- **community** replaced by **route-set**
- **filter-set**, **rtr-set**, and **peering-set** added
- new attributes added to **inet-rtr**
- *mnt-routes*, *cross-mnt*, *cross-nfy*, *member-of* added to some of the Whois v2 objects

By Samantha Dickinson, Technical Editor *<sam@apnic.net>*

APNIC Whois system architecture
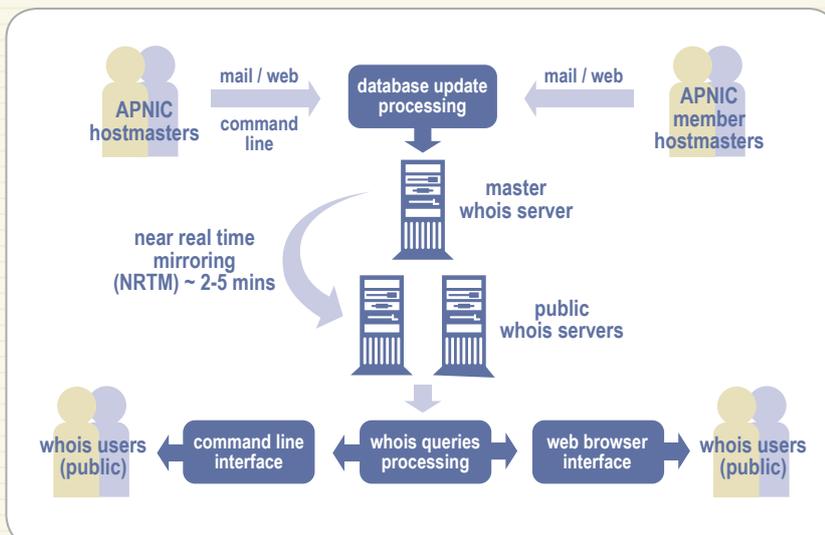
APNIC Whois system

◀   The APNIC Whois system uses a tiered architecture to handle the workload of maintaining the whois database for the Asia Pacific region. All updates are sent to the master server. The data are then propagated to a cluster of public servers, which are currently handling more than 700,000 queries per day. The near real time mirroring (NRTM) of the APNIC Whois v3 service has a delay of only two to five minutes. The architecture of the APNIC Whois system is shown in the adjoining diagram.

APIA - APOPS Forum 2002

The **Asia & Pacific Internet Association (APIA)** is a regional trade association established in 1997. APIA Forums are informative educational conferences and cover the Internet industry's latest technical and business issues. They provide in-depth coverage of a specific subject and focus on business as well as operational technologies and industry trends.

APIA-APOPS Forum 2002

In conjunction with the 14th APNIC Open Policy Meeting

2 - 3 September 2002
Kitakyushu, Japan

The participants are mostly experienced operators and vendors who would like to have an opportunity to discuss common problems with other industry experts and try to find solutions. The APIA focuses on subjects that require discussion, coordination, or collaboration by the operators of critical infrastructures or between the countries of the Asia and Pacific regions.

Asia Pacific Operators Forum (APOPS) and APIA are joining forces to organise a two-day forum in Kitakyushu, 2 - 3 September 2002, to discuss the following issues:

- Internet Security – Session Leader: Suguru Yamaguchi
- Wireless LAN – Session Leader: Robert Berger
- IPv6 – Session Leader: Takashi Arano
- IXP - Session Leaders: Philip Smith, Akira Kato

The central theme of this forum is 'Internet security'. Thus, the presentations and discussions include security issues in all sessions. The APIA-APOPS Forum will provide great opportunities to gain insight about the subjects, to exchange information about the operational issues, as well as interact with expert presenters.

As the forum is being held with the 14th APNIC Open Policy Meeting, the forum participants will also have an opportunity to join the discussion on IP address allocation policies.

For updated information on APIA–APOPS Forum 2002 in Kitakyushu and APIA's upcoming events, please see:

http://www.apia.org

Send enquiries to:

apia-sec@apia.org

Time	Monday 2 September	Tuesday 3 September
8:30	Registration	
9:00	Internet Security	IPv6
	Status and Coordination	Transition, Deployment, and Strategies
10:30	Break	
11:00	Internet Security	IPv6 Presentation and Discussion
	Technologies and Solutions	
12:30	Lunch	
14:00	Internet Security	AP IX Operators Forum
	Presentation and Panel Discussion	Regional IX Presentation and Discussion
15:30	Break	
16:00	Wireless LAN and Security	AP IX Operators Forum
17:30		Presentation and Discussion

19:00	APIA Special Meeting
20:30	

APNIC Whois Database queries by month to June 2002
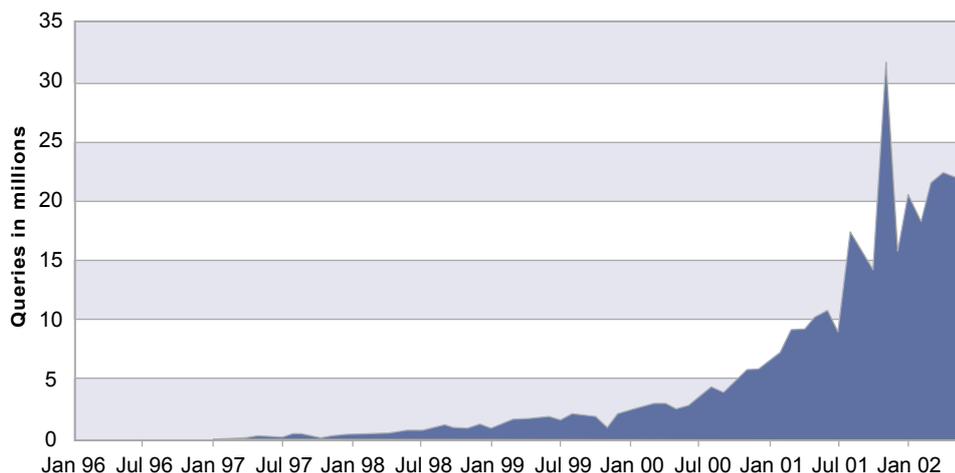
◄ Queries to the APNIC Whois Database continue to grow rapidly, averaging approximately 700,000 per day. In the last six months query rates have often exceeded 1 million per day.

Training services expand

To meet the high demand for training in IP address management in the Asia Pacific region, APNIC is expanding its training services, developing new course content and online delivery strategies as well as increasing the frequency of training sessions.

Training schedule

2002

July
- Suva, Fiji

August
- Jakarta, Indonesia
- Chennai, India
- Colombo, Sri Lanka

September
- Kitakyushu, Japan
- Ho Chi Minh City, Vietnam
- Manila, Philippines

October
- Karachi, Pakistan
- Bangkok, Thailand

November
- Beijing, China

December
- Kuala Lumpur, Malaysia

The APNIC training schedule is provisional and subject to change. Please check the website for regular updates at:

http://www.apnic.net/training

If your organisation is interested in sponsoring APNIC training sessions, please contact us at:

training@apnic.net

APNIC is expanding its training services in order to better meet the needs of the target audience - technical personnel located in the Asia Pacific region, who have responsibility for managing IP addresses, such as hostmasters from Network Information Centres or ISPs, network planners, designers and network installation engineers.

Future plans

APNIC training courses have been in high demand from APNIC members and the Asia Pacific Internet community. To meet these expectations APNIC has expanded its Training Department and is working on a variety of innovations. Future plans include:

- Additional content and new training modules
- An advanced training course
- Use of different media to deliver training
- Increased frequency of training courses (up to 2 training sessions per month)
- Training courses in a wider selection of countries
- Development of internal training management systems

To reach a wider audience, APNIC has been investigating options for the development of online training materials. APNIC is developing an integrated strategy for its training material, including online training material.

Training achievements
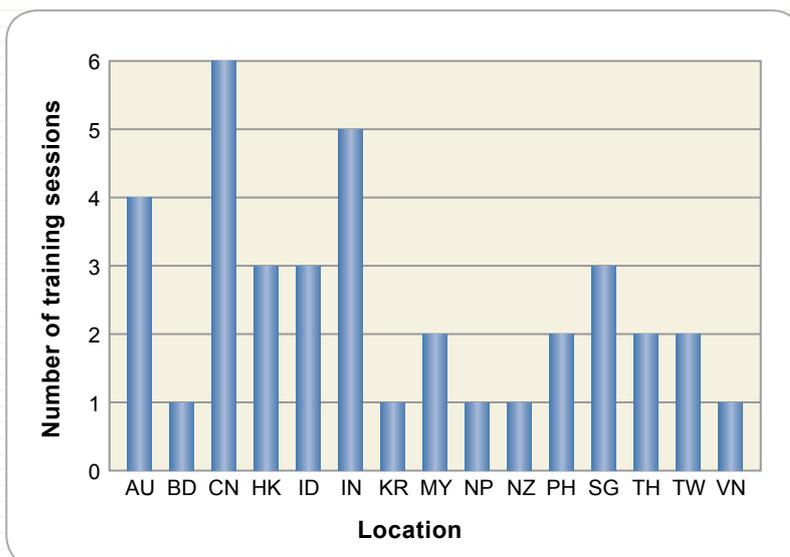
About 1800 people have attended training sessions since APNIC's first training session in March 1999. To date, APNIC has conducted 36 training courses in 15 countries in the Asia Pacific region.

By Champika Wijayatunga, Training Manager   *<champika@apnic.net>*

New staff

In this issue we profile the new staff who have recently joined the Training Department and the Policy and Liaison Department at APNIC.

Policy and Liaison Department

Savenaca (Save) Vocea - **Research & Liaison Officer (Pacific Islands)**

APNIC has strengthened its Policy and Liaison Department by appointing Save to work closely with the Internet community in the Pacific Islands. Save joins APNIC from the Pacific Islands Telecommunications Association (PITA), a not-for-profit organisation representing the telecommunications interests of island nations in the Pacific. Prior to his PITA experience, Save worked at Telecom Fiji in various positions of cable planning, data networks and rural telecommunications. Save has participated in communications events and forums throughout the region and maintains close contact with government agencies, telecommunications service providers and regional and international organisations.

Training Department

Miwa Fujii - **Training Officer**

Miwa previously worked at IBM as a team leader, operations manager and trainer. She also served various organisations as a LAN administrator, including Jardine Fleming Securities, Warburg Investment Management, and the Kobe YMCA. Miwa has provided training in these organisations and has extensive experience in training methods such as lecturing, role-playing, and the use of case studies. Miwa is enrolled in a Master of eCommerce program at Griffith University and is keen to deliver effective training to APNIC members.

Nurani Nimpuno - **Training Development Consultant**

A recent arrival from the RIPE NCC, Nurani will help to develop and improve APNIC's training courses. At the RIPE NCC, Nurani oversaw the development of IP address and ASN policies in her role as the Internet Address Policy manager. She was also responsible for the RIPE NCC training courses and the development of new membership training courses. As the Registration Services Manager at the RIPE NCC, she also managed the operations of IP and ASN allocation and ensured the provision of high quality registration services to the RIPE NCC membership. Nurani will be focusing on the development of the form and delivery of the training courses as well as expanding and improving the training material and methodologies.

When fully operational, MyAPNIC will provide a secure members-only web interface, allowing members to access private information and invoke specific APNIC services. To test the MyAPNIC prototype:

1 Apply for an APNIC client certificate at:

http://www.apnic.net/ca/

2 After installing the certificate, test MyAPNIC prototype at:

https://my.apnic.net

An APNIC client certificate must be installed in your browser.

If you have any comments or feedback on the MyAPNIC prototype please send them to the Project Manager, Sanjaya at <sanjaya@apnic.net>.

Training in 2002

APNIC has so far held nine training sessions across the region in 2002. In many cases valuable support was provided by sponsors, allowing APNIC to offer training at the lowest possible fee.

January

Dhaka, Bangladesh, sponsored by: Spectra Solutions

SPECTRA
Solutions Limited

http://www.ssl-idt.net/

Kathmandu, Nepal, sponsored by: Communications & Communicate Nepal

WDN

http://www.wdn.com.np

March

Bangkok, Thailand

Singapore, sponsored by: National Computer Systems

ncs
making IT happen

http://www.ncs.com.sg/

April

Bangalore, India

Mumbai, India, sponsored by: Videsh Sanchar Nigam

http://www.vsnl.com/

May

Hong Kong

Zhuhai, China, sponsored by: China Net

中国电信集团公司
China Telecommunications Corporation

http://www.chinatelecom.com.cn/

June

Melbourne, Australia

*C*alendar

How to contact APNIC

● Street address	Level 1, 33 Park Road, Milton, Brisbane Australia
● Postal address	PO Box 2131, Milton 4064 QLD, Australia
● Phone	+61-7-3858-3100
● Fax	+61-7-3858-3199
● Web site	http://www.apnic.net
● General enquiries	info@apnic.net
● Hostmaster (filtered)*	hostmaster@apnic.net
● Helpdesk	helpdesk@apnic.net
● Training	training@apnic.net
● Webmaster	webmaster@apnic.net
● *Apster*	apster@apnic.net

* To improve services to members, the Hostmaster mailbox is filtered. All email to the Hostmaster mailbox must include a valid account name in the subject line. The account name must be enclosed in brackets or parentheses in the subject field - [XXXXX-YY] or (XXXXX-YY), where XXXXX is based on the member name and YY is the country code. If you are unsure of your exact account name, contact <billing@apnic.net>.

▶ The Member Services Helpdesk provides APNIC members and clients with direct access to APNIC Hostmasters.

Helpdesk Hours
9:00 am to 7:00 pm
(UTC + 10 hours)
Monday - Friday

Member Services Helpdesk

APNIC

helpdesk@apnic.net

www.apnic.net/helpdesk

☎ +61 7 3858 3188
🖷 +61 7 3858 3199

Feedback

To ensure that *Apster* meets your needs, please provide us with feedback on the newsletter articles or provide suggestions for articles for future issues.

● **Fax: +61-7-3858-3199**   ● **Email: apster@apnic.net**

Name:

Position:

Organisation:

Member Account Name **(If applicable):**

Phone:

Fax:

Email:

Comments/Suggestions:

APNIC - Asia Pacific Network Information Centre