Apster27

Apster is the twice-yearly newsletter for APNIC members and the Internet community.

A successful year at APNIC

2008 saw a number of changes at APNIC. We upgraded MyAPNIC, our online number-resource management system. MyAPNIC users can now access the service either with a username and password or via the existing digital certificate-based system. They will also benefit from a range of improvements to the user interface, as well as the additional functionality of a front end to APNIC's newly-developed Resource Certification hosted signing service.

APNIC also commenced a new initiative called the 'IPv6 Program'. With Miwa Fujii appointed as manager, the IPv6 program seeks to support the community during the transition to IPv6 by disseminating practical information customized for a variety of stakeholders.

In addition, the IPv6 program will seek to collaborate with other IPv6-related organizations to represent APNIC's current stance on the IPv6 transition and to support each other's activities through information exchange.

APNIC is also currently undertaking the complete redevelopment of its website, utilizing a new content-management system. The new website will offer vast improvements in usability and ease of understanding. The new user interface is scheduled to be launched soon after APNIC 27, but we will continue to refine it throughout the year.

It's been a successful year at APNIC, and we will continue to improve our services in 2009.

Message from the Director General

As a member-based service organization, APNIC's activities are driven by our membership and the broader community. This is achieved in a variety of ways, and particularly through formal surveys that are commissioned by the Executive Council every two years.

The latest APNIC Member and Stakeholder Survey was launched by KPMG in December 2008 and received inputs from over 600 respondents. As usual, all inputs were treated confidentially, but summarized in a detailed report from KPMG, which will be announced this month at the Annual Member Meeting.

The latest survey not only gathered feedback regarding APNIC's performance and how APNIC's resources should be allocated, but it also included a crucial section on the state of IPv6 readiness in the Asia Pacific region. These results will be extremely useful in helping APNIC to address the issue of IPv6 transition in the following two years.

I hope you enjoy APNIC 27 and APRICOT 2009. Later in 2009, Beijing will host APNIC 28, our standalone meeting, which promises to be just as useful, fun, and exciting. I strongly encourage you to attend!

Until then, I wish you the very best.

APNIC 27
23-27 FEBRUARY 2009
MANILA · PHILIPPINES

MyAPNIC upgrade: secure and easy

In September 2008, we announced a significant upgrade to the MyAPNIC service. As part of our strategic continuous improvement program and in response to our members' feedback, MyAPNIC was updated so you can now gain access with a username and password.

The simplified login process expands on the digital certificate access previously required to access the site. Enhanced contact and user management features were also added to provide greater control over user access and privileges. The existing digital certificate security system remains in place for higher privilege changes to protect critical data. The MyAPNIC upgrade also included new functionality – the Resource Certification hosted signing service.

This new login process and the enhanced contact and user management screens are features designed to facilitate the straightforward management of your resources.

MyAPNIC is a secured member service website that allows you to interact with APNIC in a safe environment. For example, you can view all the resources held by your organization or check your current and past membership payments.

Existing MyAPNIC users will simply need to re-enrol online to get their usernames and passwords immediately activated.

If you do not have access to the new MyAPNIC, you will need to register for a username and password, and you will need a Corporate Contact to authorize your registration for MyAPNIC.

You can access MyAPNIC at: http://my.apnic.net
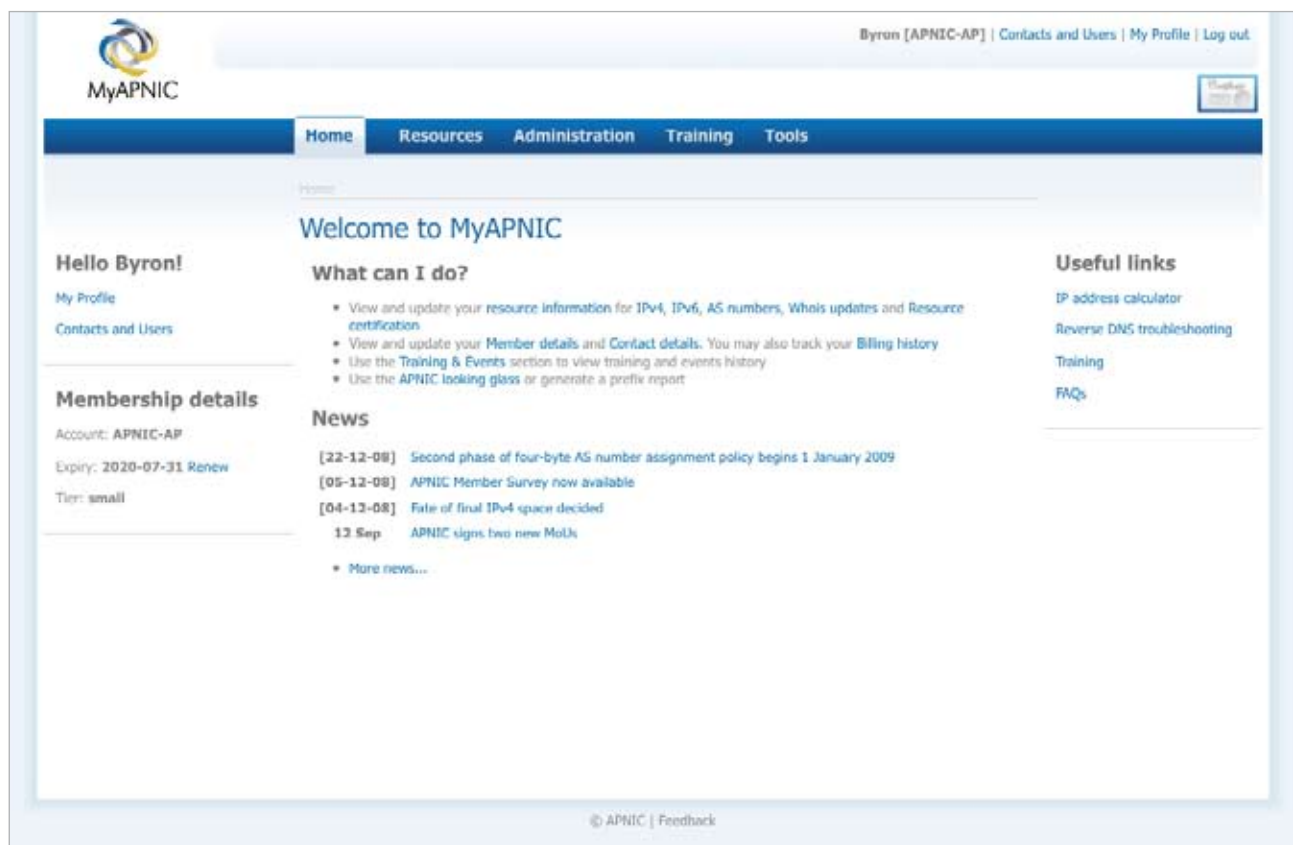
▲ APNIC's new MyAPNIC interface

NRO at IGF 2008, Hyderabad, India

The NRO participated at the third meeting of the Internet Governance Forum (IGF) from 3 to 6 December 2008 in Hyderabad, India.

Under a general theme of *Internet For All*, the event featured discussions and workshops that covered five specific areas:

- Reaching the next billion
- Promoting cyber-security and trust
- Managing critical Internet resources
- Taking stock and the way forward
- Emerging issues – the Internet of tomorrow

NRO participation and activities

Representatives from AfriNIC, APNIC, ARIN, LACNIC, and the RIPE NCC were busy throughout the four days of the IGF running the NRO booth at the IGF Village. They helped the attendees understand IP addressing issues in their regions. The NRO distributed two reports developed specifically for the IGF:

- The NRO Continuing Cooperation Report
- The Regional Internet Registries: Global Management of Internet Resources and the Transition to IPv6

See: http://www.nro.net/docs/

The NRO representatives organized or spoke at a number of workshops and dynamic coalition sessions, such as:

- *Understanding Internet Infrastructure: an Overview of Technology and Terminology.* German Valdez was involved in this workshop, which introduced key infrastructure concepts to the IGF participants from non-technical backgrounds.

- *Evolution of the Root Server System.* APNIC Director General Paul Wilson participated as one of the panellists in this discussion.

- *Challenges facing Internet operators in developing countries.* This workshop was organized by APNIC and discussed practical ways Internet operators can provide Internet connectivity in challenging circumstances.

- *Towards a code of good practice on public participation in Internet governance – Building on the principles of WSIS and the Aarhus Convention.* Paul Wilson joined panellists at this workshop.

- *ICANN's Multistakeholder Model.* Paul Wilson joined panellists on this workshop.

- APNIC's Communications Area Manager German Valdez spoke on behalf of the NRO at the official closing session of the IGF.

Representatives from the NRO also participated in discussions within the workshop *IPv6: The Solution for the Future Internet.* Following on from these discussions, APNIC's Director General Paul Wilson released a statement on Internet community development in India as it relates to issues of IPv4 exhaustion and IPv6 deployment:

IP addresses not holding India back

See: http://www.apnic.net/news/2008/1204.html

▲ The NRO booth at IGF

▲ Our workshop

APNIC 27 program highlights

The *Internet Governance Pulong* discusses solutions to local challenges

Meaning 'gathering' in Tagalog, the Internet Governance Pulong features a number of interesting speakers who will be delivering presentations and discussing how we can overcome the challenges facing Internet operators across our region.

John Klensin

Dr. John C. Klensin is now an independent consultant following a distinguished career as Internet Architecture Vice President at AT&T, Distinguished Engineering Fellow at MCI WorldCom, and Principal Research Scientist at MIT.

He served on the Internet Architecture Board from 1996-2002 and was its Chair from 2000 until the end of his term. Earlier, he served as IETF Area Director for Applications and was Chair, Co-Chair, and/or Editor for IETF Working Groups focused on messaging and IETF process issues.

Dr. Klensin is a Fellow of the ACM, a Senior Member of the IEEE, and a member of the American Statistical Association and the International Association for Statistical Computing.

Also featuring:

Wilson Chua, Philippines Internet industry expert, speaks about making ISPs environmentally responsible

Fatima Lasay, eminent researcher and author, speaks on the rejuvenation of ISOC.PH

Rajnesh Singh, Regional Manager for South and Southeast Asia, speaks on key Internet governance priorities for ISOC

Paul Wilson, APNIC Director General, speaks on key Internet governance issues for the Asia Pacific region

Many thanks to our APNIC 27 supporters:

IPv6 in 3D: Expand your world view

Integrating support for IPv6 means more than just upgrading the world's routers.

This APNIC plenary will present perspectives regarding IPv6 deployment from speakers representing three different layers of the network model: applications, IP, and the business or 'human' dimension.

As IPv6 adoption rates accelerate, the common message from those leading the way is that IPv6 has to be supported at more layers of the network than just the IP layer. Successful IPv6 deployment requires communication and liaison with stakeholders and suppliers up and down the layers, including the frequently added Layer 8 (the human dimension).

Martin Levy

Born and educated in England, Martin Levy has been involved in the TCP/IP world since the publication of the first TCP/IP RFCs. Since joining Hurricane Electric in early 2008, Martin has taken on the role of markedly expanding the Hurricane Electric IPv6 commercial offerings, including its expansion into Asia. Martin Levy is a regular speaker at worldwide Internet-related conferences.

Bruce Sinclair

Bruce Sinclair is CEO of Hexago, which claims to be the only company that generates all its revenue from IPv6. He has experience in IPv6 trials and deployments across the U.S., Europe, and Asia. Through go6.net, his company has provided IPv6 connectivity to over 150,000 users. Bruce started his career as a mathematician and programer but now focuses on sales and management.

Remote participation

If you are unable to attend the APNIC meeting in person, it's easy to participate using our remote participation tools. We provide in-browser audio/video video streaming, live transcripts, and interactive chat.

You'll have the opportunity to enjoy the talks given at the APNIC plenary, at our Policy Special Interest Group (SIG) session, and the APNIC Member Meeting.

APNIC's Liaison team will host two remote participation locations for members to get involved in the APNIC 27 Policy SIG session.

The two venues for APNIC 27 are:

- Suva, Fiji (Hosted by PITA)
- Colombo, Sri Lanka (Hosted by Dialog Telekom)

APNIC 28

Beijing, China   24-28 August 2009

Training highlights at APNIC 27

Introduction to the Internet Routing Registry (IRR)

As Internet backbone connectivity becomes more complex, it becomes more difficult to keep track of peering policies between providers and customers.

The Internet Routing Registry (IRR) is an evolving network database of Internet registered routes and routing policies. By specifying routing details using Routing Policy Specification Language (RPSL), IRR providers can use the information to check consistency and build router configurations.

This tutorial looks at the importance and benefits of the IRR and introduces participants to the tools used to interact with the IRR. The session will also explain what routing objects are, how they are created, and how to register and query them.

This tutorial is aimed at people who are already familiar with the APNIC Whois Database and want to learn more about the Routing Registry.

Understanding Botnets:
Network Attacks and Forensics

This tutorial looks at the nature of network attacks and the motivation that drives these malicious online activities. The session will discuss the types of methods that are used in modern attacks, their impact, and how they can be mitigated. The creation and operation of a Botnet will be analysed and students will be able to see this process demonstrated in a virtual environment.

In order to understand network attacks, it is important to know what network data is and how this is formed. The tutorial will, accordingly, also include a brief overview of the structure and operation of TCP/IP.

This tutorial will be of interest to engineers, operators, and others who are involved in Internet security and have a basic understanding of network operations and Internet technologies.

Enhance your skills with eLearning at APNIC

APNIC's efforts towards providing comprehensive eLearning services recently reached a milestone: We selected and successfully implemented the eLearning interactive platform DimDim and held our first online web-classes, an IPv6 module for our members in Mongolia. Further classes will be scheduled in future on a regional, sub-regional, and economy basis, but you can experience the platform for yourself at APNIC 27!
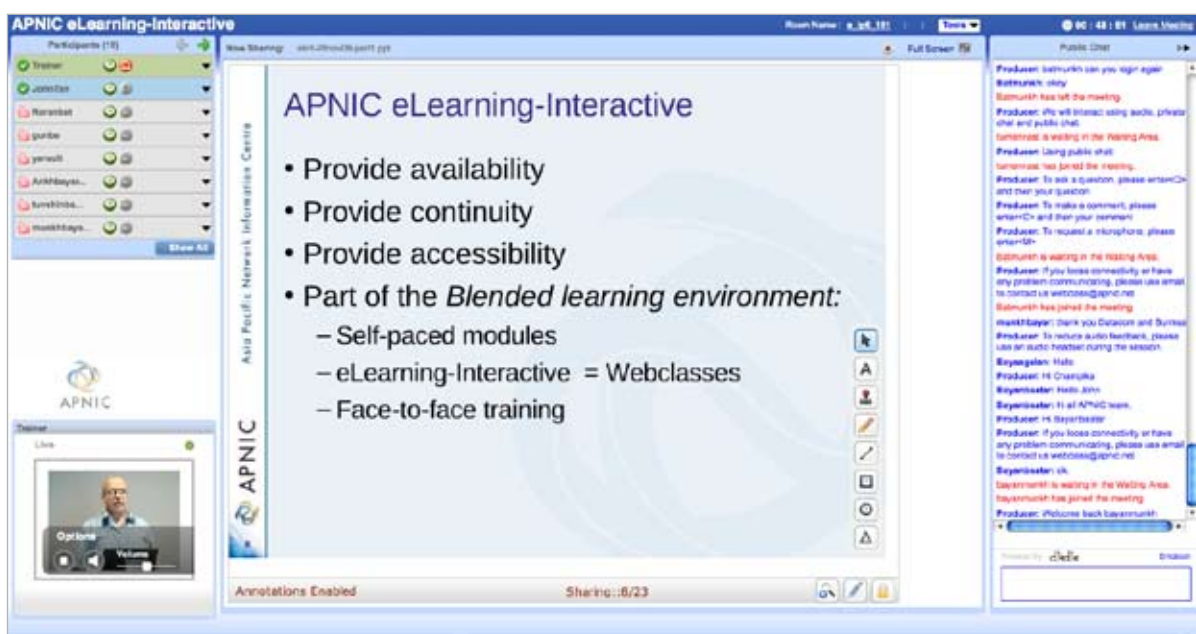
▲ APNIC's new eLearning interactive platform uses the Indian-developed DimDim application

Region-wide training coverage planned for 2009

Mongolia · China · Korea · India · Nepal · Bhutan · Pakistan · Vietnam · Taiwan · Bangladash · Hong Kong · Myanmar · Laos · Philippines · Thailand · Cambodia · Guam · Sri Lanka · Malaysia · Brunei · Maldives · Singapore · Papua New Guinea · East Timor · Fiji · Australia · New Zealand

APNIC

www.apnic.net/training

Location	Date	Course(s)	Location	Date	Course(s)
Cambodia	17-20 Feb	IRME, Sec/DNSSEC	Fiji	1-4 Sep	IRME, Forensics, IPv6
Philippines	28 Feb	IRME	Mongolia	22-25 Sep	IRME, Advanced IPv6
India	18-20 Mar	IRME, IRR	Thailand	23-25 Sep	IRME, Sec/DNSSEC
Bhutan	23-25 Mar	IRME, IPv6	Myanmar	28-30 Sep	IRME, ISP
Australia	25-27 Mar	IRME, adv IPv6	Sri Lanka	14-16 Oct	IRME, IRR
China	8-10 Apr	IRME, IPv6	India	19-21 Oct	IRME, IPv6
China	13-14 Apr	IPv6	Australia	19-21 Oct	IRME, Advanced IPv6
Guam	21-24 Apr	IRME	Nepal	14-16 Oct	IRME, Routing/IRR
Malaysia	29 April - 1 May	IRME, DNS/DNSSEC	India	19-21 Oct	IRME, Routing
Maldives	4-6 May	IRME, Routing	Vietnam	11-13 Nov	IRME, Routing, IRR
Bangladesh	3-5 Jun	IRME, DNS/DNSSEC, IPv6/Routing	Philippines	16-18 Nov	IRME, Routing, IRR
Singapore	8-10 Jun	IRME, IRR, DNSSEC	Laos	11-13 Nov	IPv6
Papua New Guinea	30 June - 3 Jul	IRME, Forensics, IPv6	Cambodia	16-18 Nov	IRME, IPv6
Brunei	15-17 Jul	IRME, IRR, DNSSEC	Korea	10-11 Dec	IRME, IPv6
India	20-23 Jul	Advanced IPv6	Taiwan	14-15 Dec	IRME, DNSSEC
New Zealand	3-5 Aug	IRME	Pakistan	8-10 Dec	IRME, Routing
East Timor	4-6 Aug	IRME, ISP	China	9-11 Dec	IRME, Routing/IRR

What's new at APNIC

The new Content Management System (CMS)

APNIC is actively redeveloping its website to use a new content management system. The new website features a complete redesign with a focus on usability, consistency, and ease of understanding. The launch date will be soon after the APNIC meeting, so stay tuned. In the meantime, here's a sneak peek!

Resource Certification

Routing security is essential to the integrity of the Internet. To maintain its viability as a trustworthy platform for interactions and transactions, we need to build security into the Internet as a whole, not just our own computers and networks.

Resource Certification is a robust security framework for verifying the association between resource holders and their Internet resources.

It's a new initiative from APNIC to improve the security of inter-domain routing and to augment the information published via the APNIC Whois service with a verifiable form of a holder's current 'right-of-use' over an Internet resource. Other RIRs are working on similar certification projects.

Fore more information see:

http://www.apnic.net/community/research/resource-cert/

Colombo Rootserver

Recently, APNIC, in collaboration with Autonomica, announced the deployment of a new I-rootserver in Colombo, Sri Lanka. This is the first root server in Sri Lanka and brings significant improvements in speed and reliability to Internet users in Sri Lanka and the surrounding region.

The Colombo root server deployment has been made possible with financial and logistical assistance from Sri Lanka Telecom and APNIC. It brings the total number of DNS root servers in the Asia Pacific region to 36, of which 22 have been made possible with APNIC's support.

For more information, see:

http://www.apnic.net/news/2008/0708.html

The ISIF workshop

After an overwhelming response to the first call for applications for ISIF funding, 11 projects were shortlisted from the 148 applications received. The Grants Evaluation Committee (GEC) met in Brisbane, Australia in October 2008 to evaluate the proposals based on a set of predefined criteria.

A group of representatives from all the shortlisted projects were invited to a workshop in Hyderabad, India for a further round of evaluations. They had the opportunity to develop collaborative networking strategies, incorporate feedback received by the GEC, and finalize their proposals.

They modified their proposals based on feedback received from the ISIF partners and other participants at the workshop. They also explored simple networking strategies to help them establish effective collaboration among the projects.

After the workshop, the group participated at the Internet Governance Forum (IGF) in Hyderabad on 3-6 December 2008.

The ISIF grants program will issue a formal announcement for a new call for applications during the second half of 2009.

For more information see: www.isif.asia

▲ Ayedee Domingo's presentation
Sypnapse Health - Philippines

▲ ISIF Opening Reception dinner guests

▲ Small group discussions with GEC members

▲ The ISIF project officer presents the follow-up

APNIC Policy focuses on IPv4 exhaustion

Policies to be discussed at APNIC 27

prop-050   IPv4 address transfers

This policy proposes removing APNIC policy restrictions on the transfer of registration of IPv4 address allocations and IPv4 portable address assignments between current APNIC account holders.

prop-060   Change in the criteria for the recognition of NIRs in the APNIC region

This is a proposal to update the criteria for recognizing new National Internet Registries (NIRs) in the APNIC region.

prop-063   Reducing timeframe of IPv4 allocations from twelve to six months

This is a proposal to change the timeframe APNIC uses to make IPv4 allocations to meet LIRs' needs from twelve months to six months.

prop-067   A simple transfer proposal

This policy proposal seeks to permit APNIC to document transfers of IPv4 address space between organizations.

prop-068   Inter-RIR transfer policy

This is a proposal to allow the recognition and recording of address transfers between APNIC and other RIRs and between APNIC and NIRs.

prop-069   Global policy proposal for the allocation of IPv4 blocks to Regional Internet Registries

This is a global policy proposal governing the allocation of reclaimed IPv4 address space from the IANA to the Regional Internet Registries (RIRs) after IANA's existing free pool of unallocated IPv4 addresses space is depleted.

prop-070   Maximum IPv4 allocation size

The policy seeks to create a maximum APNIC allocation size. The proposal then seeks to gradually decrease the maximum allocation size based on the remaining number of /8s in the IANA free pool.

Thanks to CNNIC for sponsoring our Policy Day

Pending global policy

prop-055   Global policy for the allocation of the remaining IPv4 address space

In the final stages of the global policy development process. Currently in an ICANN final call for public comment pending ratification by the ICANN Board of Directors.

Recently implemented policies

On 16 February 2008, APNIC implemented three policy proposals that reached consensus during APNIC 26 in Christchurch, New Zealand in August 2008. The APNIC Executive Council (EC) endorsed the proposals during their November 2008 meeting. The three proposals implemented are:

prop-062   Use of final /8

When the total remaining space in the unallocated APNIC address pool reaches a threshold of one /8, the following policies will come into force:

- Each APNIC account holder that meets the criteria for an IPv4 allocation will be eligible to request and receive a single allocation no larger than the minimum allocation size.

- A /16 will be held in reserve for future uses, as yet unforeseen.

prop-064   Change to assignment policy for AS numbers

From 1 July 2009, networks requesting a two-byte AS number from APNIC must demonstrate that a four-byte only AS number is unsuitable.

prop-066   Ensuring efficient use of historical IPv4 resources

The utilization of historical IPv4 address space will now be taken into account when any organization holding historical IPv4 addresses requests more IPv4 from APNIC.

Staff updates

Stella Best, Training Officer

Stella joined APNIC in November 2008. She specializes in curriculum design, but also teaches all APNIC classes. She has more than 10 years' experience as an IT trainer in various roles and has taught a wide range of applications, ranging from MS Office to large databases and enterprise systems, including SAP and Pathway, as well as GIS systems such as E-View. Stella holds a degree in Information Systems, a postgrad Diploma specializing in adult training, and more recently completed her Associate-level exams in CIW (Certified Internet Web Professional).

Dannii Cunnane, Communications Administrator

Dannii is no stranger to the RIR community and has worked within various roles at the RIPE NCC in Amsterdam, such as Training Administrator, Financial Assistant, and Customer Services Representative, for seven years. Originally from Sydney, Dannii has since moved back to Australia, settling in Brisbane, where she is studying full-time for a Bachelor of Arts in Communications (Public Relations) at Griffith University.

Mario Crnic, Project & System Services Officer

Mario joined APNIC in July 2008. He has a Bachelor of Information Technology and a Diploma in Project Management. Previously, he worked for a web development company as a Project Co-ordinator, and he has 2 years' experience working on web, software, and media projects. In his spare time, Mario enjoys playing soccer.

Jyothi Madala, Accounts Officer

Jyothi joined APNIC in September 2008. She has a first-class Bachelor's degree in computing as well as certification in business administration and finance from TAFE. She has experience in accounting-related duties in retail, government, and non-government organizations both in India and Australia. Jyothi is fluent in Hindi and Telugu.

Cristina Manabat, Office Assistant

Cristina joined APNIC in November 2008 after recently moving to Australia from the Philippines. She is responsible for providing administrative services and resources to support the daily operations at the APNIC Secretariat. Cristina speaks native-level Tagalog.

Jeffrey Tosco, Training Officer

Jeffrey joined APNIC in November 2008. He is a Microsoft Certified Trainer (MCT) and holds certifications including MCSA, MCDBA, MCSD, and CompTIA iNet+. Jeffrey is responsible for the research and development of current Internet trends, issues, and progress. Jeffrey brings to APNIC over ten years' experience in IT, five years of which was in training. He has worked in commercial training companies, academic institutions, IT consulting, and advertising management.

Yoshiko Wilson, Accounts Officer

Yoshiko joined the APNIC Finance team in October 2008 as an accounts officer. She is originally from Japan and has experience as an accounts clerk within the Australian insurance industry, as a retail salesperson, and as part of the finance team with a Japanese company for five years. She has a Certificate III in Administration. Her main role at APNIC is accounts receivables and payment queries for members.

IPv6 Program

Miwa Fujii, IPv6 Program Manager

APNIC introduced a new initiative, the IPv6 Program, in August 2008 as part of our response to the community's requests for assistance in transitioning smoothly to IPv6.

APNIC acknowledges the adoption of IPv6 as the optimal future outcome for the Internet. We recommend network operators and service providers begin planning for this transition as soon as practically possible so they are able to provide IPv6 support and IPv6 services by 2010.

IPv6 Program objectives:

- Gather empirical data about IPv4 unallocated address space exhaustion and IPv6 transition.

- Monitor technical developments in relation to methods to cope with IPv4 unallocated address space exhaustion and IPv6 transition.

- Research best practices with regard to IPv6 transition mechanisms and technologies.

- Distribute reports that address the information requirements of each stakeholder within the Asia Pacific Internet community.

- Collaborate with national and regional organizations through strategic alliances that can help bring our messages to the community.

APNIC
IPv6 Program

Calendar

This issue of *Apster* is printed
on ONYX recycled paper.
eco APNIC

How to contact APNIC

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• Fax	+61-7-3858-3199
• Website	www.apnic.net
• Helpdesk	helpdesk@apnic.net
• Training	training@apnic.net
• *Apster*	publication@apnic.net

Member Services Helpdesk

The Member Services Helpdesk provides APNIC

Chat
www.apnic.net/helpdesk

VoIP
helpdesk@voip.apnic.net

Email
helpdesk@apnic.net

Phone
+61 7 3858 3188

Helpdesk: 09:00 - 19:00 (UTC + 10 hours) Monday - Friday

Are you using MyAPNIC?

APNIC members can use MyAPNIC to:

MyAPNIC

- View APNIC resources held by their organization
- Monitor the amount of address space assigned to customers
- View current and past membership payments
- View current tickets open in the APNIC email ticketing system
- View staff attendance at APNIC training and meetings
- Vote online

For more information on MyAPNIC's features, see:

➡ www.apnic.net/services/myapnic