



APNIC Resilient to Crisis

The APNIC Secretariat staff, office, and procedures were tested in early 2011 with one of the worst natural disasters in Queensland's history. Floods paralysed the city of Brisbane for the better part of a week in January, with damages estimated to be as high as AUD 4 billion.

The Business Continuity Team, comprised of key APNIC staff across all areas of the organization, quickly worked to adapt the Business Continuity Plan (BCP) for the new premises in South Brisbane. Business Director and BCP Coordinator Richard Brown had no idea how soon the plan would be tested by an actual emergency situation.

"Although it was a stressful week, we were prepared for a disaster situation, thanks to the BCP Team and action plan. The work that has gone into formulating that plan has definitely paid off, and the result is that services were not interrupted during the flood," Mr Brown said.

Although the office itself did not flood, Mr Brown and the BCP Team had to prepare for electricity to the building and surrounding areas to be cut for safety reasons, which occurred in many parts of Brisbane.

"We had to shut the Cordelia Street servers down before the power went off, but luckily our Services triangle architecture, which also assisted with redundancy during relocation, meant we did not have to worry about service interruptions for Members."

All in all, that week proved to be a success in terms of maintaining services. The BCP Team has been workshopping disaster scenarios as part of the planning process, which turned out to be integral to maintaining a high level of service during the floods.

Helpdesk services were available throughout the week via chat and VoIP, and the BCP Team was able to meet each day, by WebEx when necessary, and each decision was made in accordance with the emergency action plan.

"It was truly a coordinated effort from all areas of APNIC staff to get us through this incident."



"Our first priority was to make sure all staff members, including those on extended leave, were safe and accounted for, which meant nearly everyone was working from home. As part of the emergency procedure, we made the decision to send staff home early in the week, before most other neighboring businesses, to ensure everyone's safety before proceeding with our responsibilities to the membership," Mr Brown said.

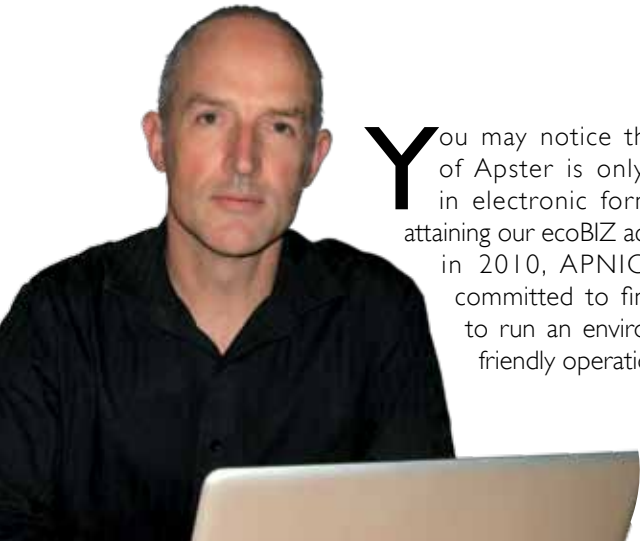
The next step is to analyse what was learned during the floods and further refine APNIC's response to potential disaster situations.

"Hopefully, we will not have to use the BCP again any time soon, but we will be prepared if any event threatens APNIC services," Mr Brown said.



APNIC 32
Busan, South Korea
29 August - 2 September 2011





You may notice this edition of Apster is only available in electronic format! Since attaining our ecoBIZ accreditation in 2010, APNIC remains committed to finding ways to run an environmentally-friendly operation.

In order to significantly reduce our printed materials without sacrificing content quality, we have come up with some tweaks to our Member and stakeholder communications that not only reduce our carbon footprint, but also align with a commitment to embrace emerging communications tools.

Now that APNIC has received its final /8 from IANA, it is only a matter of time before regional allocation policy

will change. However, Members should keep in mind that while there will be enough IPv4 space to carry out their respective IPv6 transition plans, the global exhaustion is a key indicator for those plans to get underway immediately. We have not yet reached the Final /8, but APNIC has recently changed the delegation procedures to form a more rigid queuing system. This ensures absolute fairness in managing the last requests before that policy is enacted.

All in all, 2011 is looking to be an exciting year of change. Discussions taking place at APNIC 31 in Hong Kong will be very important for the coming months.

Enjoy this edition of Apster, and stay tuned for your next Apster Bulletin!

Paul Wilson

APNIC Director General

Who is your **IRT** Contact?



Since the 8 November 2010 implementation, 1,300 IRT objects have been created, linked from 57,800+ whois objects.

Incident Response Team (IRT) objects contain dedicated contact information for handling network abuse reports and encourage faster network abuse handling.

You must now reference an IRT object when creating or updating inetnum, inet6num, or aut-num objects. To learn how to create IRT objects and more, download your copy of the IRT creation guide in MyAPNIC:

www.apnic.net/irt

APNIC triggers IANA IPv4 exhaustion

At this dynamic time in the history of the Internet and emerging technologies, the Asia Pacific region is the place to be.

In recent years, the development of the Internet in the Asia Pacific has connected millions of new users, thanks to the explosion of economic growth and activity across the region during the past decade.

On 3 February 2011, the final five /8 blocks of IPv4 addresses were distributed equally to the Asia Pacific Network Information Centre (APNIC) and the other four Regional Internet Registries (RIRs), in accordance with agreed global policy.

The occasion, coinciding with other auspicious dates, including the first day of Japanese spring and Chinese Lunar New Year, was marked with a formal ceremony in Miami, USA.

Elise Gerich, Vice President of the Internet Assigned Numbers Authority (IANA), presented each RIR with the last block of IPv4 they would ever receive under normal allocation procedures.

"In celebrating this global policy to share the last five blocks equally, we were truly celebrating global cooperation. Still, I think it was a particularly special day for the Asia Pacific region, which triggered the global policy – it is now recorded history that this region is taking the lead in Internet growth," Ms Gerich said.

Predictions surrounding IPv4 depletion has been debated for years, and as it happened, the moment of global IPv4 exhaustion occurred only slightly earlier than the most recent projections.

"It is clear that the rate of economic development across the Asia Pacific region has accelerated IPv4 exhaustion. In

particular, waves of mobile Internet networks have been built to serve millions of people, and the rate of this development is still experiencing rapid growth," APNIC Director General Paul Wilson said.

Previously low penetration rates for domestic broadband, combined with an unprecedented surge in the rollout of networks providing mobile Internet connectivity, has seen millions more devices connecting to the Internet.

"This region is home to not only some of the largest populations in the world, but also the fastest-growing economies. Nearly all Asia Pacific economies are either in a strong developmental position, or they are accelerating at a rapid pace," Mr Geoff Huston, Chief Scientist, APNIC said.

IPv4 exhaustion Stage 2

The APNIC Secretariat will continue to make IPv4 allocations as per normal and current policy criteria for another three to six months before the activation of the Final /8 policy.

APNIC Director General Paul Wilson emphasized that this policy and others, which may be discussed and reviewed by the community as needed, ensure that each network will have access to enough IPv4 space to carry out their own IPv6 transition procedures.

"The final /8 policy was written to ensure that all existing and new networks in Asia Pacific developing economies are able to make the transition to IPv6. The APNIC free pool will not exhaust for some time, because each network is entitled to one final allocation," Mr Wilson said.



TELMIN8 reinforces importance of IPv6 in Okinawa



Those who attended the Asia Pacific Economic Cooperation Telecommunications and Information (APEC TEL) Ministerial meeting (TELMIN8), held in Okinawa, Japan in October 2010, emphasized and further reinforced the need for IPv6 implementation across the region.

During the past few years, APNIC has actively collaborated with APEC TEL by organizing a series of highly evaluated workshops on IPv4 exhaustion and the importance of IPv6 deployment. These issues are recognized by TEL as two essential elements for the sustainable growth of the Internet and for achieving high broadband penetration.

APNIC's efforts culminated in an important milestone: a Statement on IPv6 Deployment contained within the TELMIN8 Ministerial Declaration, which states:

"We recognize that the free pool of IPv4 addresses is expected to be exhausted around 2012, and the transition to IPv6 will facilitate the achievement of universal broadband access in the APEC region. We support the IPv6 Guidelines developed by TEL" (Paragraph 9, TELMIN8 Ministerial Declaration.

APNIC Director General Paul Wilson, expressed his appreciation for this important achievement. "Let industry and governments collaborate to push the accelerator button of IPv6 deployment."

"IPv6 will vastly expand the Internet's capacity for growth, and allow us to maintain the Internet as we know it today, into the

far future. Therefore widespread adoption of IPv6 is going to be critical from now," Mr Wilson said.

Since TELMIN8, the global Internet community has experienced a major turning point with the exhaustion of the IANA free pool of IPv4 address space on 3 February 2011, a historical day for the Internet.

APNIC Chief Scientist Geoff Huston said the APNIC final /8 policy could be activated within the next three to six months, depending on address space requests.

"It's only a matter of time before APNIC and Internet Service Providers (ISPs) must begin turning down requests for IPv4 address space. Deployment of IPv6 is now a 'must' for all of us," Mr Huston said.

Regional IPv6 deployment presents a significant challenge for many networks, but APEC TEL has proven to be a receptive forum for multi-stakeholder dialogue. The forum has become an example of developing special technical expertise for encouraging governments to effectively respond to the task ahead. APNIC hopes to continue to contribute to this dialogue and support the collective accumulation of knowledge to face the future development of the Internet together.

Please contact Ms Miwa Fujii, APNIC Senior IPv6 Program Specialist, if you can contribute to this effort. miwa@apnic.net

New IGF Working Group

The World Summit on the Information Society (WSIS) created the IGF as an open space where different stakeholders could meet to develop a comprehensive agenda of Internet governance issues. The IGF was initially given a mandate for five years, after which, its possible continuation was to be reviewed by UN Member States. The five-year mandate ended in 2010 with the September meeting in Vilnius, Lithuania. Since 2009, feedback on its continuation has been sought in many ways, leading up to the formation, in July 2010, of a special Commission on Science and Technology for Development Working Group (CSTD) on improvements for the IGF.

On 6 December 2010, the Vice Chair of the CSTD met with participating Member States to decide on the group's composition. Sadly, during that meeting, it was agreed that the CSTD would be composed only of governments. Some members of the Internet community expressed big concerns, because the IGF was originally created as a multi-stakeholder forum, where all stakeholders are equal. In fact, there was strong criticism against the suggestion of a purely governmental working group.

In response, the CSTD approved to include five representatives from the technical and academic communities, the business community, and civil society, as well as five representatives from intergovernmental organizations. These groups of five representatives from various stakeholder groups are not members of the working group, but had been invited to "participate interactively" in its deliberations.

It is still not entirely clear what this means. Having permission to speak does not guarantee an equal say in the contents of the report. It is vital that the views of all stakeholders be treated equally, if the multi-stakeholder values of the IGF are to be upheld. So far, the Chair of the working group has been including the non-governmental representatives in the initial efforts, requesting feedback on the draft outline of the report. It is not yet clear whether the working group meetings will be webcast or transcribed, but many of the technical and business representatives will be active on Twitter using the hashtags #CSTDWG and #IGF to allow the community to follow the discussion's progress.

ISIF Projects Update

The 2009 round of ISIF grants were finalized in late December 2010, with more than USD 310,000 allocated to 11 organizations from eight different economies. Each project has shown outstanding commitment to develop and implement technological innovations that, in time, have benefited their communities.

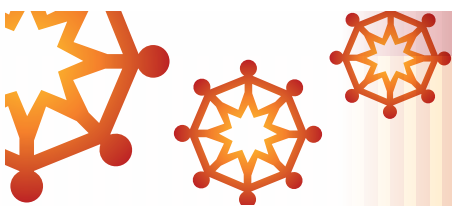
The 2010 grant recipients have shared their progress with the ISIF Secretariat through a series of technical and financial reports. Eight projects from six different economies have been granted a total of AUD 317,830.

The 2010 grant recipients participated in a workshop in November 2010 which focused on administrative procedures, reporting, and networking. The group worked to identify strengths and challenges and reassess the scope of each project, to determine concrete contributions to innovation and development.

Leading organizations support ISIF's objective to foster innovation and socio-economic development. Partners and sponsors offer their experience, advice and regional vision, so we are constantly aware of innovation initiatives that will benefit from ISIF funding. Organizations and individuals are welcome to support the program through partnership and a variety of sponsorship packages.

The ISIF Secretariat thanks the International Development Research Center (IDRC), the Internet Society (ISOC), APNIC, and Dot Asia for their generous support.

isif  **asia**



The Future of the Internet in Mongolia

In October 2010, APNIC and MobiNet organized a conference for Mongolia Internet Week that focused on various topics relating to IPv4 exhaustion and supporting Internet growth with IPv6.

More than 100 participants attended the conference, representing many aspects of ICT-dependant businesses, including ISPs, universities, government and the media. The conference featured presentations given by a number of international speakers from ICANN, ISOC, APTLD, PCH, IJ, and APRALO. These presentations covered topics such as:

- The current state of the Internet in Mongolia
- Supporting Internet growth and evolution
- IPv6 deployments
- The importance of Internet exchange and peering;
- The role of Internet users in Internet governance



APNIC

MobiCom

What drives you *drives us...*



DATACOM



New APNIC Office

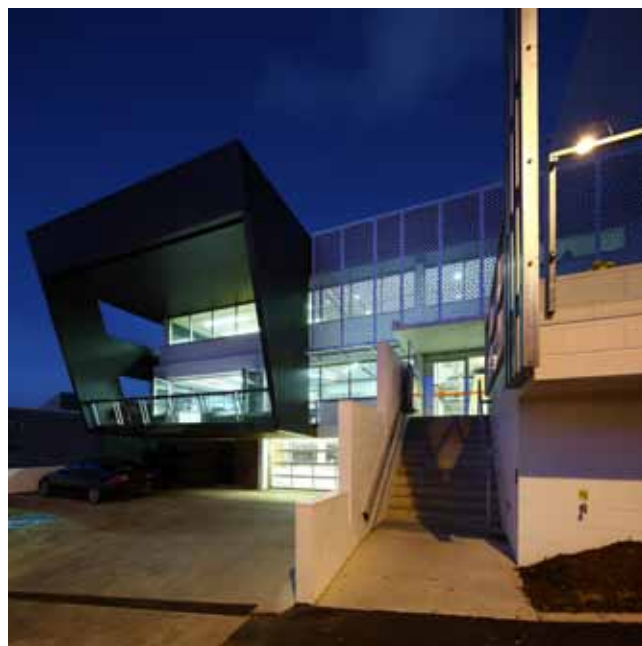
This is a year for fresh starts at APNIC, including the purchase, refurbishment, and relocation to new premises in the fast developing cultural centre of South Brisbane.

APNIC Business Director Richard Brown said the building purchase was a strategic move that had been in discussion for some time.

“Acquiring a major asset such as a building is a great way to diversify APNIC’s investment portfolio. Ultimately this purchase will save APNIC a lot of money in future operational costs,” Mr Brown said.

The new office has been fitted out to be energy efficient, maintaining APNIC’s commitment to environmental sustainability.

“Coincidentally, we recently learned that the new building is in a much better position to cope with flooding. The Cordelia Street office did not sustain any flood-related damages, nor did we lose power for a significant amount of time,” Mr Brown said.



Member Survey 2011

The 2011 Member and Stakeholder Survey is commissioned by the APNIC Executive Council every two years to assess the Secretariat’s performance and to get community input in the APNIC planning processes. This year it was conducted by Prof. Ang Peng Hwa of the Singapore Internet Research Centre (SIRC).

The questions were developed with inputs from a series of consultations assisted by Dr John Earls who conducted the previous surveys, in the form of focus group discussions in the following cities:

- Singapore
- Dhaka
- Hong Kong
- Mumbai
- Tokyo
- Chennai
- Beijing
- Delhi
- Sydney

The survey was conducted from 2 – 21 November 2010, with a total of 794 valid responses, which is a record for the APNIC Member and Stakeholder Survey.

Prof. Ang Peng Hwa will present the results and findings from the survey, which will directly impact the future direction of APNIC.

Respondent proportions according to UN economy grouping:

- 41.4% from Developed Economies
- 46.6% from Developing Economies
- 12% from Least Developed Economies

The following items were covered in the survey:

- APNIC General Services
- Resource Distribution and Technical Services
- Billing and Administration Services
- APNIC Priorities
- APNIC Public Services
- IPv4 Depletion and IPv6 Deployment
- Training, Education and Certification
- Internet Governance
- APNIC Representation



Have your say!

Take part in the 2011 APNIC Member and Stakeholder Survey by the 21 November and go into the draw for a HTC Wildfire

APNIC 31

Upcoming Training Events 2011

Course	Start	End	Location
Workshop: IPv6	21-Feb	22-Feb	Jakarta, Indonesia
Training: IRM (APNIC 31)	21-Feb	21-Feb	Hong Kong SAR, China
Workshop: IPv6	22-Feb	23-Feb	Port Moresby, Papua New Guinea
Training: IRR (APNIC 31)	22-Feb	22-Feb	Hong Kong SAR, China
Training: IRM / Policy Tutorial	23-Feb	23-Feb	Jakarta, Indonesia
Training: Policy Tutorial	23-Feb	23-Feb	Port Moresby, Papua New Guinea
Remote Participation for APNIC 31	24-Feb	24-Feb	Jakarta, Indonesia
Remote Participation for APNIC 31	24-Feb	24-Feb	Port Moresby, Papua New Guinea
eLearning: Routing Basics in the Whois Database	2-Mar	2-Mar	South Asia
eLearning: Managing Information	2-Mar	2-Mar	Pacific/Oceania
eLearning: Introduction to Autonomous System Numbers	2-Mar	2-Mar	South East Asia
eLearning: DNS Concepts	16-Mar	16-Mar	South Asia
eLearning: Introduction to Autonomous System Numbers	16-Mar	16-Mar	Pacific/Oceania
eLearning: Routing Basics	16-Mar	16-Mar	South East Asia

New Staff at APNIC

Robert Brockway – Senior Systems Architect



Robert has recently returned to work in Brisbane after spending some years working and consulting overseas. He is tasked with overseeing APNIC's IS architecture, working to ensure responsive, secure and trouble-free systems and services. He brings a wealth of experience to APNIC, so we look forward to his contribution to the IS team.

Blandine Cousin – Events Manager



Blandine is an experienced Events Manager who has worked both in technical and not-for-profit environments, so her expertise will be well utilized in the planning, organization and running of APNIC events. Furthermore, she adds French to our list of staff languages!

Ira Wulandari – Temporary Accounts Officer



Ira has joined the Finance Team to assist while Jyothi Madala takes maternity leave. Ira is originally from Indonesia, and she has recently completed her studies in Australia.

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