APRICOT 2005

94	2	22	25
94	5	18	

C09401624

54

2005 APRICOT 2005 Conference

23565907

87329084

94 2 22 - 94 2 25
94 5 18
I8
APRICOT2005

APRICOT Asia-Pacific Region Internet Conference of Technology

APRICOT Internet
Telephony Internet Exchange Points and Peering Internet Routing and Backbone
Operations Security Incident Handling Security Anti-Spam IPv6
Internet Telephony Enum VoIP
Internet Exchange Points and Peering IX
Peering Internet Routing and Backbone Operations
Metro Network QoS BGP
Security Incident Handling Security Anti-Spam
IPv6 IPv6
Asia Pacific IPv6 Summit

APRICOT 2005

APRICOT 2005

94 2 23   93 2 24

APRICOT Asia-Pacific Region Internet Conference of Technology

APNIC Asia Pacific Network Information Center

1996

APRICOT

ISP

APRICOT

2002 9 APRICOT Executive Committee   APIA Board

APRICOT APIA   2003   APIA Asia & Pacific

Internet Association   APRICOT   APRICOT

    APIA   APIA   APRICOT

      APRICOT   APNIC

   Asia Pacific Network Information Center   APNG   Asia Pacific

Networking Group

                       APRICOT

   Academia Sinica   NICST

              TWNIC   HiNet

APRICOT

      APNIC

APRICOT 2005 Conference

APRICOT 2005　　　APIA　Asia Pacific Internet Association

Internet

　　　　　APRICOT　　　　　　　　　JPCERT/CC　Japan Computer Emergency Response Team Coordination Center　IPv6 PC　IPv6 Promotion Council of Japan　WIDE　WIDE Project　JPNIC　Japan Network Information Center　JPIPA　Japan Internet Providers Association　　　　2　23 24　　　　　　　　　Kyoto International Conference Hall

　　　　　　　IPv6　　　　　　　　　Internet Telephony　Internet Exchange Points and Peering　Internet Routing and Backbone Operations Security Incident Handling　Security Anti-Spam　　　　　Internet Telephony
　　　　　Enum/SIP

　　　　　　　　Internet Exchange Points and Peering
　IX　Internet eXchange　　　　　　　　　　　　　　IX
　　　　　Internet Routing and Backbone Operations
　　　　　Internet Access　VoIP　Video　　　　　　　　BGP　Border Gateway Protocol　　　　　　　　Security Incident Handling
　　　　　　　Phishing　　　　　　　　　　　　　　Security Anti-Spam

　　　　　　　　　　　http://www.apricot.net/apricot2005/index.html

　http://www.apricot.net/

3

Program Schedule

Wednesday, 23 February

09:00 ~ 10:30 Opening Plenary Session

11:00 ~ 12:30 Concurrent Sessions (Internet Telephony   Internet Exchange

Points and Peering   APNIC IPv6 SIG)

14:00 ~ 15:30 Concurrent Sessions (Internet Telephony   Internet Exchange

Points and Peering   APNIC Routing SIG   AP IPv6 Summit)

16:00 ~ 17:30 Concurrent Sessions (Internet Telephony   Internet Exchange

Points and Peering   APNIC Routing SIG   AP IPv6 Summit)

Thursday, 24 February

09:00 ~ 10:30 Concurrent Sessions (Internet Routing and Backbone

Operations   Security Incident Handling   APNIC Policy

SIG   AP IPv6 Summit)

11:00 ~ 12:30 Concurrent Sessions (Internet Routing and Backbone

Operations   Security Incident Handling   APNIC Policy

SIG   AP IPv6 Summit)

14:00 ~ 15:30 Concurrent Sessions (Internet Routing and Backbone

Operations   Security Anti-Spam   APNIC IX SIG   APNIC

Database SIG   AP IPv6 Summit)

16:00 ~ 17:30 Concurrent Sessions (Internet Routing and Backbone

Operations   Security Anti-Spam   APNIC IX SIG   APNIC

DNS Operations SIG   AP IPv6 Summit)

Plenary Panel   IPv6

                                                      IPv6

                                    Hualin Qian

                                                      ISP

IPv6   IPv6   HDTV   3G

                                          IPv6

      ISP   CERNET   China Education and Research

Network   IPv6   CERNET2

                     Tunnel broker   IPv4/IPv6

            IPv4   IPv6

                                                            IPv6

                                    BII

      IPv6   BII   IPv6

                        Huawei   IPv6

            Internet Service   CERNET   China Telecom

      CNC   CMC   UNICOM

CRC   CAS   ISP   CNGI

      China Next Generation Internet project

      CNGI   IPv6

                                          CNGI

                                    IPv6

                                                            John

      Harper

IP + Optical

Internet2

lambda

IP + Optical

MCI   UUNet   Optical

1.   Internet Telephony

2.   Internet Exchange Points and Peering

3.   Internet Routing and Backbone

Operations

4.   Security Incident Handling

5.   Security Anti-Spam

6.   IPv6

1.   Internet Telephony

➢   Enum

Enum

➢   Security for VoIP Networks

DoS

latency jitter high availability scalability

6

➢ Enum/SIP Deployment Status

TWNIC

Enum/SIP

2. Internet Exchange Points and Peering

➢ IX IX Operator Wish List IX

IX high

port density IX

➢ Internet Mini-cores IX

IX ISP

IX

IX

➢ Asia Pacific Peering Ecosystem Updates

ISP

3. Internet Routing and Backbone

Operations

➢ data voice

video

➢ BGP BGP Blackhole Routing

Dark IP

4. Security Incident Handling

>   phishing

ISP

5.   Security Anti-Spam

>

6.   IPv6

>   IPv6   IPv6

Demo Exhibition

APRICOT

IPv6

PSTN

SIP/Enum

SIP/Enum

SIP/Enum

ISP   peering   IX

IX

ISP   IX

IPv6

Killer application   ISP   IPv6

IPv6

IPv4   IPv4

IPv6

IPv6

Phishing

VoIP

PSTN

MIT's OpenCourseWare

http://www.apricot.net/apricot2005/program.html

Program

2/18(FR)	2/19(SA)	2/20(SU)	2/21(MO)	2/22(TU)	2/23(WE)	2/24(TH)	2/25(FR)
WORKSHOPS				Reception		Social	
			TUTORIALS				
					CONFERENCE		
			APNIC TUTORIALS		APNIC SIG		APNIC AMM
			KEY TRACK				
			Demo Exhibition				
			BoF Meetings				
			Related Meetings				
		AP* Retreat	APNG Camp				
			DNS Summit	APCERT Meetings			

If you are interested in further information on the APRICOT 2005 program, please contact the APRICOT 2005 Program Committee at <apricot2005-cfp@e-side.co.jp>.

Program

Conference

Schedule | Outline | Details

Schedule

Wednesday February 23

time	C1	C2	C3	C4
9:00		[C-PL] APRICOT Plenary Session [Room A]		
10:30				
11:00	Internet Telephony (APEET) [Room C-1]	Internet Exchange Points and Peering [Room E]	APNIC IPv6 SIG [Room B-1]	
12:30				
14:00	Internet Telephony (APEET) [Room C-1]	Internet Exchange Points and Peering [Room E]	AP IPv6 Summit (APIPv6TF) [Room B-2]	APNIC [Room B-1]
15:30				
16:00	Internet Telephony (APEET) [Room C-1]	Internet Exchange Points and Peering [Room E]	AP IPv6 Summit (APIPv6TF) [Room B-2]	APNIC [Room B-1]
17:30				

Thursday February 24

time	C5	C6	C3	C4
9:00	Internet Routing and Backbone Operations [Room E]	Security Incident Handling (APSIRC) [Room C-1]	AP IPv6 Summit (APIPv6TF) [Room B-2]	APNIC [Room B-1]
10:30				
11:00	Internet Routing and Backbone Operations [Room E]	Security Incident Handling (APSIRC) [Room C-1]	AP IPv6 Summit (APIPv6TF) [Room B-2]	APNIC [Room B-1]
12:30				
14:00	Internet Routing and Backbone Operations [Room E]	Security Anti-Spam (APCAUCE) [Room C-1]	AP IPv6 Summit (APIPv6TF) [Room B-2]	APNIC [Room B-1]
15:30				

14

Outline

Dates:

23-24 February 9:00-17:30

Language:

English
(Plenary Session and APIPv6 Track only provided with simultaneous interpretation between Japanese and English)

Registration Fee (two-day conference package):

Early Bird (to 26 January 2005)

General Participant	APNIC Member
24,000 JPY	18,000 JPY
approx. 210 USD	approx. 160 USD

Standard + Onsite (27 January 2005 - on site)

General Participant	APNIC Member
30,000 JPY	23,000 JPY
approx. 260 USD	approx. 195 USD

Conference Fee (two-day) Includes:

coffee breaks (twice daily)	23-24 February
conference lunch	23-24 February
APRICOT Reception	22 February
APRICOT Social Event	24 February
access to BoF sessions	
access to demo area	

Conference Details

Wednesday, 23 February

C-PL APRICOT Plenary Session 9:00-10:30

C-PL-1 9:00-9:10

Session Title:

Opening Greetings

Opening Speakers:

Dr. Abhisak Chulya, Chair, Asia & Pacific Internet Association (APIA)
Professor Suguru Yamaguchi, Chair, APRICOT 2005 Japan Executive Committee

C-PL-2 9:10-9:50

Session Title:

IPv6 Activities in China

This presentation provides the IPv6 activities in China, including three aspects: research, deployment, and application. The research on IPv6 are conducted by the academic institutions such as universities, Chinese Academy of Sciences, BII and so on. The large scale deployment of IPv6 was initiated by the joint efforts of 8 departments of the Government and executed by main ISPs in China. Applications for IPv6 environment is tightly related to some other projects such as APAN, GLORIAD, with the cooperation of other countries such as US, Japan, EU countries, Russia, Korea and so on.

Plenary Speaker:

Professor Qian Hualin
Computer Network Information Center
Chinese Academy of Sciences

presentation (2.04MB)

C-PL-3 9:50-10:30

Session Title:.

APRICOT Plenary -

Plenary Speaker:

John Harper
Vice President, IP Routing
Cisco Systems

presentation (4.33MB)

C1 Internet Telephony(full-day 9:00-17:30)

Track Coordination:

Asia Pacific ENUM Engineering Team (APEET)
http://www.apenum.org/

APEET is an informal technical project team formed to coordinate and synergize ENUM activitiesin the Asia Pacific region. Its membership is made up ofindividuals from the following five organizations: [CNNIC] (China Network Information Center), [JPRS] (Japan Registry Service), [KRNIC] (Korea Network Information Center), [SGNIC] (Singapore Network Information Center) and [TWNIC] (Taiwan Network Information Center) .

The one-day track is designed to educate participants on the basic concepts and underlying technologies involved in ENUM and SIP as well as introducing potential applications and deployment status in the Asia Pacific region.

C1-1 11:00-12:30

Session Title:

Introduction to ENUM and VoIP

Session Description:

Session Speakers:

Welcome Address
James Seng, APEET Chair

Convergence in Metro Area Networks (MANs)
Randall Atkinson
Chief Scientist, Extreme Networks

presentation (1.47MB)

This presentation will discuss how and why telephony and video services are combining with traditional data services in converged networks, with a focus on metropolitan area networks (MANs) deployed by service providers. The initial discussion is of the reasons for network convergence and what exactly we mean by network convergence. Then we talk about how the network design and network engineering need to evolve to support data, telephony/voice, and video/television on a single shared network infrastructure. This section will discuss specific existing technologies and standards, as well as emerging technologies and standards. Guidance on network design and deployment will be provided for network engineers. Deployment and other operational considerations will be discussed for the benefit of network operations staff.

ENUM in Austria -
A status report of the first commercial ENUM implementation.
Richard Stasny
Senior Analyst, OeFEG/Telekom Austria

presentation (256KB)

The Austrian ENUM implementation for CC +43 is in commercial operation since December 2004. This presentation gives a

16

snapshot of the current status and experiences, including legal, regulatory and contractual background, entities involved, number ranges and validation methods used.

C1-2 14:00-15:30

Session Title:

IP Telephony Deployment

Session Description:

Session Speakers:

Security for VoIP networks

Jim Reid, MODA — presentation (121KB)

VoIP technology offers much in the way of cost savings and new services for both enterprises and service providers. However with the introduction of this technology there is a greater scope to disrupt services through attacks on VoIP infrastructure such as media gateways, softswitches and endpoints. This presentation will provide an overview of the most open vulnerabilities in VoIP networks, and some of the techniques and designs to secure them.

Andy Leung, Juniper Networks — presentation (2.05MB)

Hirohide Ogawa, Hitachi Cable Ltd. — presentation (1.64MB)

Gaurab Raj Upadhaya, PCH NET — presentation (123KB)

C1-3 16:00-17:30

Session Title:

ENUM/SIP Deployment Status

Session Description:

Brief deployment status updates from the regional economies represented within APEET.

Session Speakers:

Sheldon Lee, CNNIC — presentation (77KB)

Hiro Hotta, JPRS — presentation (350KB)

Dickson Loh, Infocomm Development Authority of Singapore — presentation (253KB)

Nai-Wen Hsu, TWNIC — presentation (661KB)

C2 Internet Exchange Points and Peering (full-day 9:00-17:30)

Track Coordination:

Gaurab Raj Upadhaya, Packet Clearing House
Bill Woodcock
Bill Norton, Equinix

C2-1 11:00-12:30

Session Title:

IX Operators Wish List Session

Session Description:

As part of the peering and interconnection track, this session will talk about different switching technologies used at major Internet Exchange Points. In other words, we have some of the major IX operators presenting what they are currently doing with regards to meeting their needs, and what would they want from switch vendors in future.

In addition, With so many IX operators from all over the world present at APRICOT 2005, we will be able to discuss the latest in switching technologies and see where we are heading.

Session Speakers:

Kurt Erik Lindqvist — presentation (1.25MB)
Managing Director, Netnod Internet Exchange

presentation (599KB)

Gavin Tweedie
Technical Manager, Western Australia Internet Association

Henk Steenman
CTO, AMS-IX

presentation (2.09MB)

Shinji Morikawa
Internet Multifeed Co.

presentation (307KB)

C2-2 14:00-15:30

Session Title:

Issues and Trends in IXP Operations

Session Description:

This 90-minute panel session will feature 3-4 prominent speakers with regional and/or global IXP operations experience, and will address new challenges and opportunities in running a neutral interconnection facility today. 10Gbps interconnections, multi-site operations, IPv6 peering, IXP performance metrics, and other critical issues will be addressed.

Session Speakers:

Bill Woodcock, PCH NET

Josh Snowhorn, Terremark Nap of the America

Gavin Wallace Tweedie, West Australia Internet Association

Peter Schoenmaker, NTT Communication

Steve Glibbard, Packet Clearing House

presentation (41KB)

C2-3 16:00-17:30

Session Title:

Asia Pacific Peering Ecosystem Updates

Session Description:

At the APRICOT 2004 Asia Pacific Peering Track, Peering Coordinators shared their experiences peering across the Asia Pacific Region, highlighting great variabilities from a deployment and operations perspective. We asked them to share what they found counter-intuitive, unexpected, or particularly challenging as they expanded their networks into new countries. These lessons learned were documented in the Session Moderators "The Asia Pacific Peering Ecosystem" white paper (freely available from wbn@equinix.com). This session is a continuation of the APRICOT 2004 Asia Pacific Peering Track.

We have selected three speakers that have built into or within the Asia Pacific region and will highlight the differences building and operating in (many) different countries. These differences are not necessarily good or bad, but rather things that others expanding into Asia should prepare for.

Session Speakers:

Hyun-Bae Han
Director, Overseas Internet Planning Division
International Network Planning & Management Team
Network Group, KT Corporation

presentation (1.71MB)

Eriko Sugisaki
Peering Coordinator
KDDI Corporation

presentation (338KB)

Nigel Titley
Commercial Peering Manager
Flag Telecom

presentation (172KB)

C3 AP IPv6 Summit(full-day 9:00-17:30 ; day 2 continued on 24 February)

Track Coordination:

Asia Pacific IPv6 Task Force
http://www.ap-ipv6tf.org/

The AP IPv6 Task Force is comprised of representatives of national IPv6 promotion bodies from ten Asia Pacific region economies. The task Force is active in developing general deploymentand transition guidelines, sharing regional and local IPv6 strategies and investigating and publicizing IPv6 deployment status throughout the region.

C3-1 11:00-12:30

Session Title:

APNIC IPv6 Technical SIG

Session Description:

The charter of the IPv6 Technical SIG is to share information on IPv6 deployment around the region and to review technical and engineering issues relating to IPv6.
SIG Chair: Kazu Yamamoto, Internet Initiative Japan (IIJ)/ WIDE Project
Co-Chair: Jun Murai, Keio University/ WIDE Project

Session Speakers:

see the 19th APNIC Open Policy Meeting site for more detail.
http://www.apnic.net/meetings/19/index.html

C3-2 14:00-15:30

Session Title:

IPv6 Organizational Updates

Session Description:

This sessions will provide a series of brief 10 min. updates on the current status of IPv6 related issues as various related groups/organizations (JPNIC, /43, IETF, IPv6 Promotion Council of Japan, Diffusion Metrics, JPRS, IPv6 Ready Logo Program, IPv6 Transition WG etc.)

Session Speakers:

JPRS Update

Hiro Hotta

Director, Corporate Planning

JPRS

presentation (136KB)

IPv6 Ready Logo Program Update

Hiroshi Miyata

TAHI Project Leader

Yokogawa Electric Corporation

presentation (138KB)

IETF Update

Tomohiro Fujisaki

Nippon Telegraph and Telephone Corporation

presentation (55KB)

Domestic and International Strategies of the IPv6 Promotion Council

Kensuke Yasue

IPv6 Business Development Group, E-Government Research Center

Mitsubishi Research Institute

IPv6 Diffusion Metrics/IPv6 Promotion Council Transition WG Update

Takashi Arano

CTO, InetCore

Chair, IPv6 Deployment Committee, IAjapan

presentation (109KB)

JPNIC Update

Toshiyuki Hosaka

IP Business Group, Japan Network Information Center

presentation (111KB)

C3-3 16:00-17:30

Session Title:

IPv6 Technical Session

Session Description:

A technical session covering the latest trends and issues in IPv6.
Areas to be covered include WLAN-CDMA, Firewall/Security and Qos/Multicast.

Session Speakers:

presentation (3.32MB)

Fumio Watanabe
General Manager,
Wireless Broadband System Development Department

"au" Technology Division, KDDI Corporation

Shinsuke Suzuki
Hitachi Ltd.

Tadahisa Okimoto
Business Solutions Division, NTT West

Thursday, 24 February

C5 Internet Routing and Backbone Operations(full-day 9:00-17:30)

Track Coordination:

Ananth Nagarajan, Juniper Networks

C5-1 9:00-10:30

Session Title:

Network Architectures for Emerging Services

Session Description:

As IP-based networks are being increasingly used to support multiservice needs, it is important to architect backbones appropriately to carry these services in an optimal manner. Emerging services include multimedia, broadband, metro ethernet and wireless services. This session will cover some architectural considerations for such services.

Voice and Video Done Economically(30 min.)
A new category of IP networking equipment, called flow-based routers, now promise the same sort of performance guarantees as traditional voice and video networks based on TDM, Frame Relay and ATM. I examine the economics of introducing new premium services over an IP network that had the predictability of TDM, Frame or ATM, versus how it's done today.

Broadband/Metro Network Architectures (30 min.)
Metro broadband network can deliver a variety of services to the home and businesses. This tutorial discusses the architectural options for delivering high quality video, voice, and Internet services to the home; and how VPN services can be offered with tight Service Level Agreement to the businesses. What Metro access technology, security and Quality of Service mechanism are needed to offer these services?

Architecture for WiMAX applications (30 min.)
WiMax offer operators a new option to deliever broadband services over both licences and unlicenced radio spectrum. Initial deployments are based on 802.16a-2004 for fixed broadband, however 802.16e once ratified will allow for portable Internet and wireless broadband roaming. This presentation will explain WiMax network architectures, and cover topics including routing design, protocol stacks, roaming and handover and IP service delivery.

Session Speakers:

Joe Neil
Caspian Networks

Lim Wong
Consulting System Engineer
Cisco Systems

Robert Healey
Juniper Networks

C5-2 11:00-12:30

Session Title:

Operating Multiservice Networks

Session Description:

CoS Design for Multiservice Networks (30 min.)
This 30 minute presentation examines the requirements for designing effective class of service (CoS) i8n multiservice networks that carry concurrent voice, video, and data traffic. The presentation then examines the CoS building blocks such as classification mechanisms, queue design, queue servicing schemes, and congestion avoidance mechanisms and how these are configured to meet the requirements of a multiservice network.

RFC 2547 Convergence Techniques (30 min.)
In the context of RFC2547-based VPN's, we analyze the loss of connectivity caused by the following failures: core link, core node, PE node, PE-CE link, CE node. We explain how this is optimized with recent technological improvements and network design techniques. The content of the presentation is supported by extensive lab characterization. This work is part of a wider project focusing on improving network convergence.

High Availability Techniques (30 min.)
The IP networking industry is requiring greater reliability from its networks and equipment as it seeks to accommodate TDM-based services. This tutorial will introduce participants to the methods and technologies of 99.999% reliability in routed networks.

Session Speakers:

Jeff Doyle
Senior Network Architect
Juniper Networks

r | presentation (95KB)

Clarence Filsfils
Cisco Systems

r | presentation (179KB)

Matt Kolon
Juniper Networks

r | presentation (2.28MB)

C5-3 14:00-15:30

Session Title:

Backbone Routing and Security Techniques

Session Description:

This session will cover emerging technologies for network operations - including routing techniques and security for backbone networks.

Multi-topology Routing (30 min.)
The presentation focuses on Multitopology Routing (MTR), which is a new a new dimension to the Destination based routing. The session introduces the concepts and provides deployment basics for this new technology.

Securing the Backbone (30 min.)
This talk will present methods for ensuring the security of the router infrastructure which forms the core of data networks. We will present examples of attacks, and of operational problems which can occur as side effects of attacks. We will then outline technologies and best practices which protect against these attacks and prevent associated operational problems.

Service Provider Case Study (30 min.)
<to be finalized>

Session Speakers:

Danny McPherson
Director of Business Development
Arbor Networks

r | presentation (820KB)

Ross Callon
Distinguished Engineer
Juniper Networks

r | presentation (886KB)

Geoff Huston
APNIC

r | presentation (1.00MB)

C5-4 16:00-17:30

Session Title:

Tools and Best Current Practices

Session Description:

In this session, there will be presentations about tools and techniques to assist in network operations, as well as best current practices used in operating networks.

Using Route Registry and Related Tools for Configuring Routers(30 min.)
Internet Routing Registry is a public repository of routing policy information. Describing your policy using RPSL enables for scalable, consistent, platform-independent and automated creation of filters or router configuration files. The presentation will introduce interesting features of RPSL, tools for utilising and generating Routing Registry information, and related services and projects of the RIPE NCC.

Best Current Practices to Determine Traffic Matrices in IP Networks (30 min.)
Knowledge of the amount of traffic between source and destination pairs of a network is crucial to fundamental operational tasks like capacity planning, traffic engineering, and peering management. Router vendors, third parties, and academic researchers, and ingenious network engineers have devised multiple ways of collecting and estimating traffic matrices. This talk presents an overview of applications of traffic matrices and operational experiences with the various approaches including Netflow based methods, mathematical estimation models, and MPLS (both RSVP and LDP) methods. Emphasis will be on practical experiences with each method.

Session Speakers:

Vach Kompella
IP Networks Division, Alcatel

presentation (7.29MB)

Vesna Manojlovic
Advanced Courses Trainer, RIPE-NCC

presentation (105KB)

Thomas Telkamp
Director of Network Consulting, Cariden Technologies, Inc.

presentation (884KB)

C6 Security(full-day 9:00-17:30)

Track Coordination:

Track Coordination is shared by:
APCERT (Asia Pacific Computer Emergency Response Team)
http://www.apcert.org/
APCERT is a coalition of CSIRTs (Computer Security Incident Response Teams) from 12 economies across the Asia Pacific region.

APCAUCE (Asia Pacific Coalition Against Unsolicited Commercial Email)
http://www.apcauce.org/
APCAUCE is the Asia Pacific wing of CAUCE, the Coalition Against Unsolicited Commercial Email (http://www.cauce.org). CAUCE is the world's largest volunteer antispam organization, with chapters in the USA, Canada, the EU and over a dozen economies in the Asia Pacific region.

APCAUCE approaches the growing problem of spam in the Asia Pacific region with a three pronged strategy combining technical, policy and legislative solutions.

C6-1 9:00-10:30

Session Title:

APSIRC - "Incident Trend & Analysis"

Session Description:

The main topic of this session is "computer crime." Presentations include statistics and analysis on computer network attacks (i.e. phishing) and trends of professional cyber security crimes from some economies in the Asia Pacific region.

Session Speakers:

9:00-9:30 Where is the way out for stop phishing

This presentation talks about the various phishing techniques; the phishing incidents that CNCERT/CC handled; trend analysis about phishing; proposals on handling phishing incidents.

Speaker:

Dr. Du Yuejin, Division Chief of CNCERT/CC

presentation (540KB)

9:30-10:00 Trends in Japan

Speaker:

Yurie Ito, JPCERT/CC

presentation (23KB)

10:00-10:30 Online Identity Theft

A presentation on the current trojan activity related to Internet Banking - the use of spam, trojans and spyware. The impact and the response.

Speaker:

Graham Ingram, General Manager AusCERT

C6-2 11:00-12:30

Session Title:

APSIRC - "Early Warning"

Session Description:

Some presentations about early warning.

Session Speakers:

11:00-11:30 Vulnerability Handling

A presentation on the activities of the Microsoft Security Team.

Speaker:

Meng-Chow Kang, CISSP, CISA

Chief Security & Privacy Advisor, Microsoft Asia Pacific

11:30-11:50 Traffic Monitoring 1

"A Worldwide Distributed Platform to Study Internet Threats"

The talk introduces Eurecom's Project.

Speaker:

Marc Dacier, Eurecom

11:50-12:30 Traffic Monitoring 2

"Traffic Monitoring - MyCERT Experience"

The presentation will focus on sharing MyCERT's experience in traffic monitoring which will address among others the architecture of the system, the technology and method used and types of information monitored which could be the basis of data sharing among the APCERT members. i.e. Traffic profiling based on the aggregation on certain traffic characteristics such as protocols, ports, 'success and failures' and traffic volumes. Lessons learned and future research will also be discussed.

Speaker: Solahuddin Shamsuddin, MyCERT

"The Portal Site of the Traffic Monitoring"

Every economies in the world are looking for a reasonable methodology to predict incidents and estimate the impact the incidents will affect within their own constituency. Moreover, they want to know if the incidents are happening in other countries or provinces having similar computer environment, which is to give a proper alerts to the public timely. A portal site that gathers information of traffic monitoring from various economies is a good idea to satisfy those requirements. At the first stage, sending data with ssh protocol and IODEF format and recording the data into the database are essential to get the statistics we want. For this portal site project, the initiatives should think about not only the way of gathering traffic data of domestic, but also what kind of data they will collect. Is sending traffic data to other CERT a critical problem? Open mind and have a look at the contents of the data to send, then you will think in a different way.

Speaker: Jungu Kang, KrCERT

Speakers:

"Traffic Monitoring - MyCERT Experience"
Solahuddin Shamsuddin, MyCERT

"The Portal Site of the Traffic Monitoring"
Jungu Kang, KrCERT

C6-3 14:00-15:30

Session Title:

Presentation on "Tracking a Zombie Army"

Session Description:

A presentation on tracking a zombie botnet using DNS views and honeypots, and an analysis of the botnet's attempted activities.

Session Speakers:

James Lick
Chair of the Asia Pacific Coalition Against Unsolicited Commercial Email
(AP CAUCE)

C6-4 16:00-17:30

Session Title:

Panel Discussion on "IETF reputation, authentication and other anti-spam proposals"

Session Description:

Most protection against problematic email has requires directly analyzing its content. Another line of counter-attack is to assess its source. A first step in assessment is authenticating the "sender", to create realistic accountability. The second step is to conduct deeper analysis of their email performance. So far, authentication has involved informal use of the sender's IP Address. Although it appears that IP Addresses will remain a component of the authentication efforts, numerous proposals suggest more elaborate

schemes. In addition, the concept of "sender" actually involves several different agents for email transfer. Hence, different proposals assess different address fields. This session will survey those proposals and explore their administrative and operational impact and efficacy.

Session Speakers:

David Crocker
Principal, Brandenburg Internet Working

presentation (53KB)

presentation (44KB)

Meng Wong
Founder, CTO, pobox.com

presentation (2.50MB)

presentation (0.99MB)

Jim Fenton
Distinguished Engineer, Cisco Systems

presentation (228KB)

C3 AP IPv6 Summit(full-day 9:00-17:30 ; continuation of 23 February Track)

Track Coordination:

Asia Pacific IPv6 Task Force
http://www.ap-ipv6tf.org/
The AP IPv6 Task Force is comprised of representatives of national IPv6 promotion bodies from ten Asia Pacific region economies. The task Force is active in developing general deployment and transition guidelines, sharing regional and local IPv6 strategies and investigating and publicizing IPv6 deployment status throughout the region.

C3-4 9:00-10:30

Session Title:

Regional Update I

Session Description:

An Update on National IPv6 Initiatives underway in NE Asia.

Session Speakers:

JaeHo Lee
NCA, Korea

presentation (6.68MB)

Reen-Cheng Wang
National Dong Hwa University
NICI IPv6 Steering Committee, Taiwan

presentation (3.75MB)

Takuya Miyoshi
Ministry of Internal Affairs and Communications, Japan

presentation (3.92MB)

C3-5 11:00-12:30

Session Title:

Regional Update II

Session Description:

An Update on IPv6 Initiatives and deployment status in SE Asia.
10-15 min. focused reports on status/initiatives/players/barriers/ on a country level.

Session Speakers:

Winston Seah
Networking Department, Communications & Devices Division
Institute for Infocomm Research (Member of A*STAR), Singapore

presentation (995KB)

Sinchai Kamolphiwong
Associate Professor, Prince of Songkla University

presentation (310KB)

C3-6 14:00-15:30

Session Title:

Business Development and Applications

Session Description:

A presentation of a group ofdetailed case studies on Business Applications.

Session Speakers:

Noriaki Fujiwara
Senior Staff Researcher, Systems Technology Research Laboratory
Matsushita Electric Works, Ltd.

presentation (2.54MB)

Ichiro Morihara
Executive Director, Research and Development Center
NTT West Corporation

presentation (873KB)

Marc Blanchet
CTO, Hexago
Steering Committee, North American IPv6 Task Force

presentation (534KB)

C3-7 16:00-17:30

Session Title:

Panel Session - APIPv6TF Follow Up

Session Description:

Panelists representing the Task Force (TF) member countries will discuss progress over the first year of TF operations.
The panel will review reports from the three TF WG's and a discuss regional issues and collaborative strategies.

Session Speakers:

Sam Lee
National Computerization Agency

presentation (274KB)

Winston Seah
Networking Department, Communications & Devices Division
Institute for Infocomm Research (Member of A*STAR), Singapore

Takashi Arano
CTO, InetCore
Chair, IPv6 Deployment Committee, IAjapan

presentation (336KB)

presentation (79KB)

presentation (42KB)

Han-Chieh Chao
Professor & Chair
Department of Electrical Engineering
National Dong Hwa University, Taiwan
Deputy Director, R&D Division
NICI IPv6 Steering Committee, Taiwan
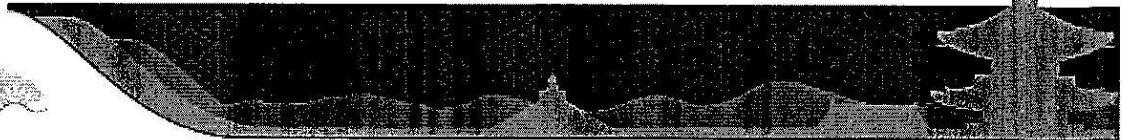
Program

BoF Meetings

Informal BoF (Birds of a Feather) sessions will take place on the evenings of 21-23 Febraury. BoF's attendance is free of charge to all APRICOT registrants. Advance registration for BoF session is not required.

Schedule

Monday February 21

time	B1	B2	B3
18:00	Native Names Promotion Seminar	Security BoF I: Joint NSP-SEC/INOC-DBA BoF [Room J]	
19:30			
21:00	[Room I]		

Tuesday February 22

time	B4	B5	B6
18:00	Security BoF II: Security for IP Network Infrastructure and Prevention of DoS attacks [Room I]	i-email [Room J]	APOPS (Asia Pacific OperatorS Forum) [Room K]
19:30			

Wednesday February 23

time	B7	B8	B9
17:30	IPv6 Fix WIDE Project	Asia Pacific Peering BOF	
18:00			
19:30	[Room B-2]	[Room E]	

BOF Details

B1 Native Names Promotion Seminar

21 February 18:00-21:00

http://www.iak.ne.kr/nativename/2005/kyoto3.htm

Abstract:

Native Names or Keywords have been deployed widely in many countries and found to be very successful especially in China, Korea, Japna and Thailand. It also has been shown to create a tremendous social impact on Internet Society in that country or language. This seminar will pay more attention on this social impact issue and how to promote Native Names in your native language. We have invited key players in this area to make keynote speech to inform how it has been promoted successfully and how much impact it has on its own society. For more information, please contact Eunjin Seo <ejseo at cosmos.kaist.ac.kr> or visit http://www.iak.ne.kr/nativename/2005.

26

B2 Security BoF I:Joint NSP-SEC/INOC-DBA BoF

21 February 18:00-19:30

Dylan Greene and Gaurab Raj Upadhaya

Outline:

Security incidents are a daily event for Internet Service Providers.

Attacks on an ISP's customers, attacks from an ISP's customer, worms, BOTNETs, and attacks on the ISP's infrastructure are now one of many "security" NOC tickets through out the day. This increase in the volume and intensity of attacks has forced ISP's to spend constrained resources to mitigate the effects of these attacks on their operations and services. This investment has helped minimize the effects of the attacks, but it has not helped stop them at the source. Stopping attacks at their source requires rapid and effective inter-ISP cooperation. Hence, these ISP Security BOFs are also used as a face-to-face syncup meeting for the NSP-SEC forum (see https://puck.nether.net/mailman/listinfo/nsp-security.)

The first NSP-SEC BoF I was held last year at Apricot in Kuala Lumpur.

INOC-DBA (Inter-NOC Dial-by-ASN) hotline phone system connects the network operations centers of network operators around the world in a closed VOIP system. The system's name is derived from the fact that the dial plan employs the AS Numbers of the participating organizations.

To call the network operations center of another carrier or ISP, a user simply picks up the phone and dials their AS Number, which rings straight through to the other network's NOC or specific individuals there.

The INOC-DBA hotline system has been in production use since October, 2002, but undergoes continuous development and refinement. There are currently about 500 ISPs and carriers connected to the system, throughout the world; in fact, in January of 2003, the INOC-DBA phone system became the first single telephone network of any sort to reach all seven continents. More recent developments have included cryptographic authentication of user's telephones, and a self-provisioning web interface for participant organizations.

The BoF will look into receiving feedback on the new provisioning system and invite suggestion. A similiar BoF at RIPE 49 in Manchester was a huge success and thus the effort to do it in the AP region.

If you would like to contribute to the BOF, please send email to <dylan@juniper.net> or <gaurab@lahai.com>.

B4 Security BoF II:
Security for IP Network Infrastructure and Prevention of DoS attacks

22 February 18:00-19:30

Ross William Callon and Paul Quinn

Outline:

The IETF is defining operational security requirements for the infrastructure of IP networks. The goal is to codify knowledge about feature sets to securely deploy and operate routers and switches. This talk will outline the IETF effort, will provide examples of attacks and associated network problems, and will show how these provide the required capabilities. We will discuss project goals, status, example requirements and will encourage participation and talk about how people can participate in the IETF effort.

During this BoF we will also cover the ever present and increasing problem of denial of service. We will start with a review of the current state of DoS attacks moving to an open discussion of detection and mitigation techniques and examine future trends and technologies such as rapid quarantine and advanced network telemetry.

B6 APOPS (Asia Pacific OperatorS Forum)

Tuesday 22 February, 18:00-19:00

http://www.apnic.net/meetings/19/programme/other-meetings.html#apops

Co-chairs:

Philip Smith (Cisco Systems Inc) and Hideo Ishii (Asia Global Crossing)

Description:

The Asia Pacific Operators Forum (APOPS) provides an opportunity for members of the Internet community with a shared interest to meet informally and exchange ideas.

APOPS was established as a mailing list for ISP operations engineers as early as 1996. With the growth of the Internet in the region, the first APOPS meetings were held as part of the APNIC annual members meeting in 2000.

Since then APOPS meetings have been held during the annual APRICOT conference and the mid-year APNIC meeting.

B7 IPv6 Fix BOF (for comfortable browsing on the dual-stack environment)

23 February 17:30-19:30

Organization:

The WIDE project

Description:

When you are using IPv6 in daily life, you may meet problems as web browsing gets very slow. Though 99% of IPv6 is well designed and deployed, 1% flaw would give bad impression to users. In this BOF, we will introduce an activity, called "IPv6 Fix", to fix the flaw. This activity including fixing specification of the on-link assumption, improving implementation of DNS server and resolvers, measuring quality of IPv6 and ICMPv6 and so on.

B8 Asia Pacific Peering BOF

23 February 17:30-19:30

BoF Abstract:

The Peering Birds Of a Feather session provides a forum for Peering Coordinators to meet each other with the goal of establishing peering relationships. We will use a well established technique to facilitate peering: Peering Personals.

Participating Peering Coordinators will complete and email the form below to the Peering BOF Faciliator in advance of the BOF.

Peering Coordinators will have two minutes at the BOF to introduce themselves, their networks, where they currently peer and where they intend to be peering in the next several months, a little bit about what they require of potential peers and what they are looking for in a peering candidate. On the projector screen behind the Peering Coordinator as hey speak will be the peering information they provided in advance: Peering Coordinator contact information, AS#, peering locations, etc. This will allow the audience of Peering Coordinators to write down the relevant information, put a face to a company name, facilitating peering conversations that immediately follow the peering introductions. This has proven to be a very effective way for people to identify the Peering Coordinators they most need to speak with about peering.

Peering Coordinators who would like to participate in Peering Introductions should e-mail the following information to wbn@equinix.com no later than Jan 28, 2005.:

1) Name: _____
2) Company: _____
3) AS#: _____
4) Email Address: _____
5) Peering Locations Taday: _____
6) Peering Locations in the next 3-6 months: _____
7) Is your network more Content-Heavy or Access-Heavy ?
8) Do you source/sink more than 1Gbps of traffic?
9) Do you require Contracts for Peering?
10) Do you have an "Open Peering Policy (meaning you will peer with anyone in any single location)?"
--or--
Do you have a "Selective Peering Policy (meaning you will peer but have some prerequisites that must be met first)?"
--or--
Do you have "Restrictive Peering Policy (meaning you generally will not peer with anybody else)?"

To participate in the Peering Introductions section of the Peering BOF please email the above questions with your answers and email to wbn@equinix.com with the Subject: APRICOT 2005 Peering BOF by Jan 28.
Everyone is of course welcome to attend the Peering BOF, but participation priority is given to those who provide the above information in a timely manner.

Session Speakers:

Peering Coordinators in attendence.

Program

Events

APRICOT Opening Reception

22 February 19:00-20:30

1F Banquet Room Sakura, Kyoto International Conference Hall (KICH)

Fee: 3,000 JPY (included in Conference registration fee)

APRICOT Closing Social

24 February 19:00-21:00

1F Annex Hall, Kyoto International Conference Hall (KICH)

Fee: 4,000 JPY (included in Conference registration fee)

Related Meetings

The following organizations have scheduled meetings to be held within the KICH venue in conjunction with APRICOT.

- O   APCAUCE (Asia Pacific Coalition Against Unsolicited Commercial Email)
- O   APCERT (Asia Pacific Computer Emergency Response Team)
- O   APEET (Asia Pacific ENUM Engineering Team)
- O   APNG (Asia Pacific Networking Group)
- O   APNIC (Asia Pacific Network Information Centre)
- O   AP* (APSTAR) Retreat
- O   APTLD (Asia Pacific Top Level Domain Association)
- O   Asia Pacific IPv6 Task Force

APCAUCE (Asia Pacific Coalition Against Unsolicited Commercial Email)

APCAUCE
Asia Pacific

http://www.apcauce.org/

APCAUCE is the Asia Pacific wing of CAUCE, the Coalition Against Unsolicited Commercial Email (http://www.cauce.org). CAUCE is the world's largest volunteer antispam organization, with chapters in the USA, Canada, the EU and over a dozen economies in the Asia Pacific region.

APCAUCE approaches the growing problem of spam in the Asia Pacific region with a three pronged strategy combining technical, policy and legislative solutions.

APCAUCE will contribute program content to a Security Track within the 24 February APRICOT 2005 Conference program.

APCERT (Asia Pacific Computer Emergency Response Team)

http://www.apcert.org/

APCERT is a coalition of CSIRTs (Computer Security Incident Response Teams) from 12 economies across the Asia Pacific region.

APCERT will hold its Steering Committee and Annual Member Meetings within APRICOT 2005. APCERT will also contribute program content to a Security Track within the 24 February APRICOT 2005 Conference program.

APEET (Asia Pacific ENUM Engineering Team)

http://www.apenum.org/

APEET is an informal technical project team formed to coordinate and synergize ENUM activities in the Asia Pacific region. APEET will contribute program content to an Internet Telephony Track within the 23 February APRICOT 2005 Conference program.

APNG (Asia Pacific Networking Group)

http://www.apng.org/

Asia Pacific Networking Group(APNG) is an Internet organization dedicated to the advancement of networking infrastructure in this region, and to the research and development of all associated enabling technologies. Its mission is to promote the Internet and the coordination of network inter-connectivity in the Asia Pacific Region.

Through its activities, it has spawned off a number of Asia Pacific organizations including Asia Pacific Network Information Centre (APNIC), Asia & Pacific Internet Association (APIA), Asia Pacific Top Level Domain Association (APTLD), Asia Pacific Computer Emergency Response Team (APCERT).

Today, APNG represents the region at the Coordinating Committee for Inter-Continental Research Networking (CCIRN), and is the leading voice of Internet networking in the Asia Pacific Region.

The 6th APNG Camp is scheduled for 21-23 February 2005 within APRICOT 2005.

APNIC (Asia Pacific Network Information Centre)

http://www.apnic.net/

APNIC is one of four Regional Internet Registries currently operating in the world. It provides allocation and registration services which support the operation of the Internet globally.

APNIC 19 will be held in conjunction with APRICOT 2005 from 21-25 February and gives the Asia Pacific Internet community the opportunity to develop policy, share information, and network on both professional and social levels.

AP* (APSTAR) Retreat

http://www.apstar.org/

AP* (APSTAR) represents the community of Asia Pacific Internet Organisations.

The AP* Retreat is scheduled for 20 February 2005 within APRICOT 2005.

APTLD (Asia Pacific Top Level Domain Association)

http://www.aptld.org/

APTLD is an organisation for ccTLD (country-code Top Level Domain) registries in Asia Pacific region. APTLD works as the forum of information exchange regarding technological and operational issues on country code domain name in the Asia Pacific region.

APTLD is a membership organization, currently it has 22 ccTLDs in the AP region joined as Normal Members, 1 Association Member and 1 observer.

APTLD will hold its AGM (Annual General Meeting) at APRICOT 2005 (date TBD). APTLD will also contribute to the APRICOT 2005 Program with a Technical Tutorial aimed at ccTLD registry staff and anyone interested in DNS related technologies (tentatively scheduled for 21 February 2005).

Asia Pacific IPv6 Task Force

http://www.ap-ipv6tf.org/

The AP IPv6 Task Force is comprised of representatives of national IPv6 promotion bodies from ten Asia Pacific region economies. The task Force is active in developing general deploymentand transition guidelines, sharing regional and local IPv6 strategies and investigating and publicizing IPv6 deployment status throughout the region.
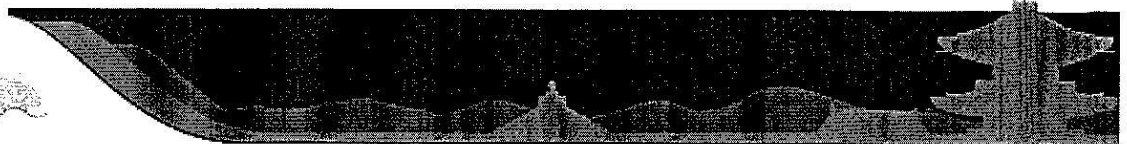
Program

Demo Exhibition

Cisco Systems

NEC Corporation

NTT West Corporation

This service monitors unauthorized network accesses from Internet all the time, by employing network equipment, such as intrusion detectors (IDS), intrusion protectors (IPS) and firewalls.
That enables incident response in realtime.
Recent companies cannot reduce risks of unauthorized computer access and virus/worm infection, although they increase the information security budget.
This service can adopt several kinds of monitoring equipments (IDS, IPS, and Firewalls) and meets the needs for security of those companies.

IPv6 Promotion Council of Japan

Juniper Networks

Alaxala Networks Corporation

Ax series, The basic router/switch corresponding to the mission critical network.

Security technology, such as filter ability witch realizes the redundantized function and safe communication of various equipment/ courses, and the Qos control technology of securing communication quality can practical use, "quantity reliance IP/Ether net work"

which is the guarantee type network which corresponded mission critical are realized by combining these products.

more info: http://www.alaxala.com/en/

contact: sales@alaxala.com

Extreme Networks

Extreme Networks is a leader in open converged networks. Its innovative network architecture provides Enterprises and Metro Service Providers with the resiliency, adaptability and simplicity required for a true converged network that supports voice, video and data, over a wired and wireless infrastructure, while delivering high-performance and advanced security features.

Net One Systems

"Device Network Solution" is a new concept of the networking services provided by NetOneSystems.
It provids us efficient operation, contributes to reduce the system costand to save the energy by integrating Internet Protocol (IP) net working and various devices on a network including sensors using LonTalk.
"Infranet" that is called as a sort of packet networking, which guarantees the services and security of Private Network and scalability of the Internet, is now becoming new infrastracuring model.

NetOneSystems has been leading network integration and infrastructuring business of IT era in Japan. We strive to develop a new technology, contribute to integrate business infrastracure forcusing on IP networking by using both our "Device Network Solution", which has contained future possibilities of echo-business in view of environmental assessment, and "Infranet" which is turning to imperative needs of new business infrastrure.

more info: http://www.netone.co.jp/index_e.html

contact: yamagata@netone.co.jp

NTT Communications

NTT Communications Corporation has not only pioneered in providing full-fledged IPv6 services in the world, but also developed cutting-edge IPv6 technologies. At apricot 2005, we will introduce a new communication platform "m2m-x(code name)", a development of our IPv6 R&D technologies.

"m2m-x" offers "Machine to Machine" communication in secure, effortless, and low-cost way through the Internet. As well as PCs, advanced home information appliances, industrial devices, and other electronic devices can be applied to this platform. These three merits are mainly achieved by m2m-x management server which plays the main role of m2m-x platform. Since it processes machine authentication, access control, and data encryption effortlessly but effectively by managing all SIP signaling in an integrated fashion, End-to-End real-time communication between m2m-x devices is realized without any complicated configuration.

We will demonstrate three m2m-x applications at our booth.
Please come and feel m2m-x's potential for business use and daily life.

contact: m2m-x@ntt.com

Cariden Networks

Cariden Technologies, Inc. offers the MATE Software Suite, containing unique tools for the simulation and optimization of IP and MPLS networks. These tools are used by Capacity Planning, Architecture Analysis, Traffic Engineering, Peering Coordination, and Network Operations groups at leading ISPs around the world. MATE's multiplatform (Windows, Linux, Solaris, Mac OS X) and multifaceted tools create unparalleled coordination and cooperation opportunities between groups/departments.

At Apricot 2005, Cariden will give live demonstrations of MATE tools, including IP and MPLS simulations, IGP Metric Optimization, MPLS Explicit Routing, Traffic Matrix Deduction, and BGP/Peering simulations. These tools are all part of the MATE Framework. This framework provides a coherent and convenient process for accessing data, visualizing the network, demand estimation, interacting with simulations and optimizations, and creating reports and action plans.

more info: http://www.cariden.com/

contact: info@cariden.com

Arbor Networks

ARBOR

Alcatel SA

ALCATEL

Japan Registry Service

jPRS

more info: http://jprs.co.jp/en/
contact: info@jprs.jp

Internet Security Systems K.K.

INTERNET|SECURITY|SYSTEMS®

Internet Security Systems (ISS), the world leader in security since 1994, provides products and services that protect against a various security threats for more than 11,000 customers that include global enterprises and governments worldwide.ISS products and services are based on the proactive security intelligence conducted by ISS X-Force research and development team, the unequivocal world authority in vulnerability and threat research.

At the ISS booth, we introduce Intrusion Prevention appliance Proventia G, and Integrated security appliance Proventia M that is single security device that unifies a firewall, VPN , intrusion prevention, antivirus, antispam and Web filtering.

more info: http://www.iss.net/
contact: apricot@isskk.co.jp

Flag Telecom

FLAG
TELECOM

FLAG Telecom is a leading provider of international network transport and data services to telecommunications companies across the globe. Our suite of services are delivered across an advanced optical and IP network that connects key business markets and Internet communities across Asia, the Middle East, Europe and the USA. FLAG's services provide the foundations underpinning the networks of many of the world's largest and best-known carriers and ISPs.

At APRICOT 2005, FLAG will illustrate the key strengths of its IP network

more info: http://www.flagtelecom.com
contact: nhamilton@flagtelecom.com

Program

Speaker Profiles (alphabetical order)

Takashi Arano

Intec NetCore, Inc.

Received Master of Science from the University of Tokyo in 1986.
He joined NTT Software Laboratories that year, and after becoming a visiting researcher at Illinois University, he worked on the design, implementation and operation of NTT's OCN network.
After overseeing the launch of OCN's IPv6 service as the director of NTT Communications' IPv6 project, he joined Asia Global Crossing where he served as a regional director.
He subsequently joined Intec NetCore, Inc. as Senior Managing Director, CTO.

Pensri Arunwatanamongkol

intERLab/AIT and THNIC

Pensri Arunwatanamongkol gradated in 1989 from Chulalongkorn University, Thailand in Computer Engineering and obtained her M.Eng. in Computer Science from Asian Institute of Technology, Thailand in 1994. She joined the Computer Science Program (now the Computer Science and Information Management Field), Asian Institute of Technology in 1990. She has involved with Thailand Network Information Center (THNIC) since the establishment of THNIC in 1991 as the technical contact of .th. She is currently a Research Specialist I in the Internet Education and Research Laboratory (intERLab)/AIT, while at the same time is also the assistant to the THNIC's director.

Salman Asadullah

Technical Leader, Cisco Systems

Salman Asadullah, a Technical Leader at Cisco Systems, has been designing and troubleshooting large-scale IP and multiservice networks for over nine years. He has represented Cisco at industry panel discussion and technical conferences such as Networkers, APRICOT, NANOG, SANOG, IETF and several IPv6 Forum events. He is a author/contributor of IETF documents,technical articles, and white papers, as well as two books, Cisco CCIE Fundamentals: Network Design & Case Study, and PDIO of the IPT Networks. Salman holds a B.S. in Electrical Engineering from Arizona and an M.S. in Electrical Engineering from Kansas.

Muhammad Aslam

Manager Afghanistan Network Information Center and technical .af ccTLD

1997-2003 Instructor, C.D.P Computer Training Institute, Peshawar, Pakistan
2001-2003 Network Administrator, Netzone Internet Service Provider, Peshawar, Pakistan

2003- present
.af ccTLD Manager/technical contact, UNDP/ICT Project
Ministry of Communications, Kabul, Afghanistan

2004- present
Manager, Afghanistan Network Information Center (AFGNIC)
Ministry of Communications, Kabul, Afghanistan

Javed Asghar

Senior Software Engineer, Cisco Systems Inc

Javed Asghar works for Cisco Systems as a senior Software Engineer in the Core Internet Backbone Router Organization a.k.a Cisco 12000 Series, specializing in ATM, Ethernet, Frame Relay and advanced MPLS Technologies.
He possesses 4+ years of experience in the design, test and deployment of High End Routers. In his current role, Javed Asghar has been working on the development of ATM, Ethernet, Frame Relay, Advanced MPLS, QoS, AToM and VPLS technologies on 12000 Series Platform. He has led several development and test projects 4xOC12 Engine 3 ATM Line card, 4xOC3 Engine 3 ATM Line card, Service Port Adaptors on Engine 3 and 5 and AToM solution on Engine 3 and 5 based line cards. He has also been providing design, consulting and escalation assistance to US, European and Asian Service Providers. He has worked on many critical Cisco accounts providing MPLS based solutions for small and large scale MPLS networks in the areas covering L2 VPN, L3 VPN, QoS, VPLS and other related technologies across multiple hardware platforms.

Randall Atkinson

Chief Scientist, Extreme Networks

Mr. Atkinson is a past member of the Internet Architecture Board (IAB), serving from 1999 through 2002. While on the IAB, he coordinated the IAB workshop on Network Management. He has been active in Internet standards in the IETF for over 15 years. He has been co-chair of the IP Security WG and the One-Time Passwords (OTP) WG. He is the original inventor of the IP Security protocols, ESP and AH, and author or editor of numerous other Internet RFCs. He also has worked in Network Engineering for a large multi-national ISP. He currently performs networking research in his role as Chief Scientist for Extreme Networks.

Tony Bates

Vice President/General Manager, Routing Technology Group

Carrier Core Multi Services Business Unit

Cisco Systems, Inc.

Tony Bates is Vice President and General Manager of the Routing Technology Group, Carrier Core Multi Services Business Unit, for Cisco Systems. In this position, he drives the strategy and execution of Cisco□ high-end router and Multi-Service WAN product families.

Mr. Bates joined Cisco in 1996. During his tenure, he also has served as Director of Marketing for the Optical Internetworking Business Unit, as Manager of Engineering for Internet POP Systems (IPSBU) and as Tech Leader in the Office of the CTO.

Before joining Cisco, Mr. Bates served as Backbone Engineering Manager for MCI's Internet Backbone Group, where he drove the backbone engineering strategy for Internet MCI, MCI's national IP backbone. In all, Mr. Bates has more than 16 years of experience in the telecommunications and Internet industries and has played a major role in shaping and growing the Internet. Mr Bates has published several Internet RFCs in the areas or Internet routing and operations.

Dhurba Raj Bhandari

Systems Manager

Soaltee Hotel Pvt. Ltd

Dhurba Raj Bhandar currently works as the Systems Manager at Soaltee Hotel Pvt. Ltd, the oldest and largest hotel in Nepal. He is responsible for management of the Hotel network, it's multiple satellite and international link, it's reservation network as well as the hotel mail systems. He also oversees the IT security and campus network which comprises of fiber, copper and WiFi installations. Up to last year, he worked at Mercantile Communications (www.mos.com.np), one of the premier ISPs in Nepal as a network administrator. At Mercantile, he did the installation and management of the Nagios Network Management System.

Dhurba Raj Bhandari is also a member of Computer Association of Nepal, a CCNA and a MCSE. Mr Dhurba also speaks fluent Japanese.

Ross Callon

Distinguished Engineer, Juniper Networks

Ross Callon is a distinguished engineer in the protocols group at Juniper Networks and has extensive experience in router and routing protocol design.
He is co-chair of the IETF l3vpn working group, and is coauthor of the VPN Security Framework.
He also was chair of recent IETF BOFs on Operational Security Requirements, and has participated in efforts to advise the White House on network security. He has authored or contributed toward VPN, MPLS, PNNI, IPv6, IS-IS and CLNP networking standards.

David Caspari

Vice President, Service Provider Operations, Asia Pacific

Cisco Systems

David Caspari is Vice President of Service Provider Operations, Asia Pacific at Cisco Systems. Reporting to Mr Gordon Astles, President of Cisco's Asia Pacific theatre, David will be responsible for driving the company's business with Service Providers. He will focus on helping Cisco's Service Provider customers build efficient, scalable telecommunication networks, which will enable them to deploy profitable, value-added services.

David joined Cisco Systems in October 2004 from Nortel Networks where he was Vice President, Wireline Networks. Asia Pacific and led Nortel Networks' overall Service Provider Voice, Data, Broadband and Convergence business for Asia Pacific.

He has a strong track record in the service provider market in Asia Pacific. He was with Bay Networks before the company was acquired by Nortel. David started his telecommunications career with Alcatel as a cadet engineer. He has held numerous management roles in marketing, product management, engineering, business strategy and sales management.

David holds a Bachelors Degree in Electrical Engineering from the University of New South Wales, Australia and has completed postgraduate studies in Business and Marketing with the Australian Graduate School of Management and the Richard Ivey School of Business (University of Western Ontario, Canada).

Lawrence Chan

Corporate Vice President, Vice President, Asia Pacific

Echelon Corporation

Prior to joining Echelon, Mr. Chan was Vice President of Asia Pacific and Japan for Banyan Systems Inc. Prior to Banyan Systems, he held a variety of senior management positions with Stratus Computer Inc. in both the U.S. and the Far East. Prior to that, he was with ComputerVision, Oriental Data Systems, Hong Kong International Terminals, John Swire and Sons, Kowloon Container Terminals, and NCR HK.

He is a Chartered Member of The British Computer Society and a Member of The British Institute of Management. He also served in the steering committee of Hong Kong Computer Society. He is an advisor to the Electrical Engineering Department of Institute of Vocational Education of Hong Kong. He is now serving as the Vice President of OSGi (Open Services Gateway Initiatives).

Han-Chieh Chao

Professor & Chair

Department of Electrical Engineering

National Dong Hwa University, Taiwan

Deputy Director, R&D Division

NICI IPv6 Steering Committee, Taiwan

Han-Chieh Chao is a Full Professor and Chair of the Department of Electrical Engineering, National Dong Hwa University, Hualien, Taiwan, R.O.C. His research interests include High Speed Networks, Wireless Networks and IPv6 based Networks. He received his MS and Ph.D. degrees in Electrical Engineering from Purdue University in 1989 and 1993 respectively. He has authored or co-authored 3 books and has published about 100 refereed professional research papers. He has completed 28 MSEE thesis students. Dr. Chao has received many research awards, including Purdue University SRC awards, and NSC research awards (National Science Council of Taiwan). He also received many funded research grants from NSC, Ministry of Education (MOE), Industrial Technology of Research Institute, Institute of Information Industry and FarEasTone Telecommunications Lab. Dr. Chao has been invited frequently to give talks at national and international conferences and research organizations. Dr. Chao is also serving as an IPv6 Steering Committee member and Deputy Director of R&D division of the NICI (National Information and Communication Initiative, a ministry level government agency which aims to integrate domestic IT and Telecom projects of Taiwan), Co-chair of the Technical Area for IPv6 Forum Taiwan, the executive editor of the Journal of Internet Technology and the Editor-in-Chief for International Journal of Internet Protocol Technology and International Journal of Ad Hoc and Ubiquitous Computing. Dr. Chao is an IEEE senior member.

Kilnam Chon

Professor, Computer Science Department

Korea Advanced Institute of Science and Technology

B.S. in Engineering Science, Osaka University, March 1965
M.S. in Computer Science, UCLA, December 1967
Ph.D in Computer Science, UCLA, September 1974
Postgraduate Research Associate, UCLA, 1971-1974
Member of Technical Staff, Jet Propulsion Laboratory, California Institute of Technology, 1976-1980
Principal Investigator, Electronics and Telecommunications Research Institute?(KIET), 1979-1982
Professor, Computer Science Department, KAIST, 1982-Present
Chair of Board, Internet Association of Korea, 2000-Present

David H. Crocker

Principal, Brandenburg Internet Working

David H. Crocker is a principal with Brandenburg Internet Working. He develops network-based applications businesses and designs systems architectures for them. He worked in the ARPANet community during the 1970s, and led product development efforts during the 1980s. During the Internet bubble he founded several startup companies, serving as CEO for one. Over the years, Dave has developed and operated two national email services, designed two others, and was CEO of a community non-profit ISP. Dave has a B.A. in psychology from UCLA, M.A. from the Annenberg School of Communications at USC, and he studied computer science at the University of Delaware. He is a co-recipient of the 2004 IEEE Internet award for his work in email.

Dave has been leading and authorizing Internet standards for thirty years, covering Internet mail, instant messaging, facsimile and EDI, He has also contributed to work on Internet Security, e-commerce, domain name service, emergency services and even some TCP and IP enhancements. He has authorized more than 45 IETF requests for comments. Dave served as an Area Director for the Internet Engineering Task Force, variously overseeing network management, middleware and the IETF standards process.

While at Digital Equipment Corporation, Dave initiated an internally funded project for open enhancement of the then-problematic BIND software used by DNS servers. Dave has been active in DNS policy work. Jon Postel named him as a member of the IAHC and he was editor of its proposal to add more top-level domains to the DNS. Its recommendations formed the basis of the eventual enhancements to domain name administration. Dave has also been active in the ICANN Non-Commercial Domain Name Holders Constituency.

Jeff Doyle

Senior Network Architect, Juniper Networks

Specializing in IP routing protocols, MPLS, and IPv6, Jeff Doyle has designed or assisted in the design of large-scale IP service provider networks throughout North America, Europe, Japan, Korea, and the People: Republic of China. Jeff is the author of CCIE Professional Development: Routing TCP/IP, Volumes I and II, is an editor and contributing author of Juniper Networks Routers: The Complete Reference, and is the author of a new series of books on large-scale networking.
Jeff has presented numerous corporate seminars, and has also spoken at NANOG, JANOG, APRICOT, and at IPv6 Forum conferences.

Hiroshi Esaki

Associate Professor, Graduate School of Information Science and Technology

The University of Tokyo

Hiroshi received his B.E. and M.E. degrees from Kyushu University, Fukuoka, Japan, in 1985 and 1987 respectively. He received a Ph.D from The University of Tokyo, Japan in 1998.

In 1987, he joined Research and Development Center, Toshiba Corporation, where he engaged in The research of ATM systems. From 1998, he has been working for The University of Tokyo as an Associate Professor, and for the WIDE Project as a Board Member.

He was at Bellcore in New Jersey (USA) as a residential researcher from 1990 to 1991, where he was engaged in research on high speed computer communications. From 1994 to 1996, he was at CTR (Center for Telecommunications Reserch) of Columbia University in New York (USA) as a visiting scholar.

He is currently interested in a high speed internet architecture. including MPLS technology, mobile computing, and IPv6.

Jim Fenton

Distinguished Engineer, Cisco Systems

Jim Fenton is the lead architect for Identified Internet Mail, a proposal for cryptographic message signatures to counter fraudulent email. He is also responsible for defining a number of new initiatives relating to router-based security, which encompasses technologies such as firewall, intrusion detection, address translation, and encryption. In previous roles at Cisco, Mr. Fenton has managed development efforts relating to VoIP features for service providers, store-and-forward fax, and was a key member of the team that established Cisco in the dial access market.

Clarence Filsfils

Cisco Systems

Clarence Filsfils joined Cisco in 1996 and as a consulting engineer he focuses on IP core routing and Capacity Management (IP QoS/ Traffic Engineering) designs.

Clarence has been leading the 'fast convergence' project at Cisco for the last 2 years. He presented earlier results from this work (focusing on IGP fast convergence) at APRICOT2004, NANOG29 and RIPE47 conferences. He has also presented at several conferences on the topic of MPLS and QoS. His focus his on deployment capability and hence his presentations are based on extensive lab characterization or deployment experience.

Miwa Fujii

APNIC Training Officer

Miwa has served as an APNIC trainer since 2002. During this period she has provided Internet resource management education and training to many people, countries and regions in the Asia Pacific. Miwa has developed and delivered, with her colleagues, training programs on IPv6, Internet routing registry and whois data base, among other topics.

Before joining the Asia Pacific Network Information Centre (APNIC), Miwa worked at IBM Australia as operations manager, team leader and trainer for the IBM Asia Pacific Technical Support Centre. Previously, she served various organisations as a LAN administrator, including Jardine Fleming Securities, Warburg Investment Management and the Kobe YMCA.

Miwa was educated in Japan and currently lives in Brisbane, Australia.

Hiroshi Fujiwara

President, Chief Executive Officer

Internet Research Institute, Inc.

Vice Chairman, Internet Association Japan

Member of Nippon Keidanren (Japan Business Federation)

Born in 1954. Bachelor of Science and Ph.D of Engineering from Kyoto University and University of Tokyo, respectively. He has been involved in System Engineering at IBM, Japan, R&D activities on Computer & Network at Hitachi Engineering, and Leader of a National Research Project on Video Coding & Multimedia Networking at ASCII Corp. He established IRI as a general IP Technology Provider in 1996, and succeeded in an IPO as the first listed company on the Tokyo Stock Exchange Mothers Exchange in 1999.

Kenji Fujikawa

Graduate School of Informatics, Kyoto University

Received ME in the field of Information Science from Kyoto University in 1995.

From 1997 he was an assistant professor of department of Information Science and from 1998 is an assistant professor of Graduate School of Informatics in Kyoto University.

Received Ph.D. in the field of Informatics from Kyoto University in 2000.

His research interest includes QoS-guaranteed multicasting on the Internet, and Wireless Internet access.

Noriaki Fujiwara

Senior Staff Researcher, Systems Technology Research Laboratory

Matsushita Electric Works, Ltd.

1980
B.S. Applied Mathematics and Physics, Kyoto University.

1980-1996
Research and Development for structure analysis, precise measurements and software engineering.

1997-1998
Research and Development for object-oriented software design and systems in US.

1999-Present
Senior Staff Researcher, Systems Technology Research Laboratory, MEW

Research and Development for IPv6-related systems, EMIT-related systems, software automation and middle-ware components. Research and Development for Tele-control system with IPv6 as a leader of Tele-control SWG development team.

Seon-Gyu Go

Professor, Electoral Training Institute

Korea National Election Commission

1992 B.S. in Political Science, Dankook University
1997 M.S. in Information Science, Tohoku University
2000 Ph.D in Information Science, Tohoku University
2001-02 Planning Director, Seoul e-Gov Research Institute (EGRI)
2002-2004 Research Fellow, Sejong Institute

2004-Present
Fellow, Center for Global Communication, International University of Japan
Research Fellow, Institute for Hyper Network Society of Japan,

Steve Haddock

Co-founder and Chief Technology Officer

Extreme Networks

Steve Haddock is a co-founder and Chief Technology Officer of Extreme Networks. Since 1989 Steve has been an active participant in the development of international standards including FDDI, ATM Forum, IEEE 802.3 and 802.1, and the Metro Ethernet Forum. He has served in the IEEE as a clause editor for 802.3z Gigabit Ethernet, Chairman of 802.3ad Link Aggregation, and Vice-chairman of 802.3ae 10 Gigabit Ethernet. Steve has over twenty years designing networking products and protocols, and has been awarded over a dozen patents for networking innovations.

Hyun-Bae Han

Director, Overseas Internet Planning Division

International Network Planning & Management Team

Network Group, KT Corporation

Education

Aug. 2001:	Ph.D. in Electronics Engineering, Information & Communications University
Feb 1986:	Master of Engineering in Electronics, Seoul City University
Feb 1984:	Bachelor of Engineering in Electronics, Han-Yang University

Work Experience

Present:	Director of Overseas Internet Division
Mar 2003:	Director of Global Hubbing Business Division
Feb 2002:	Director of Global Business Planning Division
Aug 2001:	Director of Global Broadband Business Division
Jun 1997:	Director of e-Commerce Division
Dec 1996:	Director of Internet Service Development Division
Mar 1996:	Director of SI/NI Business Division
Jul 1987:	Joined KT as an associate researcher

John Harper

Vice President, IP Routing

Cisco Systems

John Harper, Vice President of Cisco Systems, is responsible for the development of IP Routing in Cisco's IOS software, which runs on all of Cisco's router product range. His responsibility includes all of the platform-independent software for routing protocols, multicast, IP mobility, IP security, and IP services. This consists currently of around 350 people, in several locations including San Jose, London, Edinburgh and North Carolina.

Previously, John founded and was managing director of Q3 Consulting, providing strategic and technical consulting services covering the convergence of computing technology and telecommunications. Q3 grew in four years to an annual turnover which exceeded ?500,000. Q3's largest single assignment was to build a technical team responsible for the design and procurement for a satellite-based multimedia communications system at Inmarsat, the world's leading operator of communications satellites. This system will enter service in 2003.

John's expertise includes business strategy, management, and in-depth technical expertise covering all aspects of computing and telecommunications. He is accustomed to working at board level and with customers at senior levels, and works well with groups and people at all levels in a company. He has a sound background in engineering, strategic and business management, as well as a strong technical understanding of telecommunications (including Internet and multimedia as well as traditional networks), Web technology, distributed client/server computing, object-oriented technology and computer networks.

He has worked extensively in international and multicultural organizations, and has worked in several countries including the UK, the US, France and Germany. For many years he held the chair of one of the largest international standards groups dealing with computing technology, with up to 100 representatives from all major countries.

Prior to creating Q3 Consulting, John was with Digital Equipment for 20 years, finishing as Technical Director and Engineering Manager for the Telecommunications Industry, at its centre in Sophia Antipolis, France.
Here he directed Digital□strategy for the telecommunications industry.
His responsibilities included the widely-used TeMIP product for TMN, and a suite of products for Intelligent Networks. Previously, he was Technical Director for Digital□Wide Area Network products, based in Reading, England, with responsibility for router and bridge products and for integration of Internet and OSI standards with the Digital Network Architecture (DECnet).

Mark Harrison

Senior Research Associate & Associate Director

Auto-ID Labs, Cambridge, UK

Mark became involved in the Auto-ID Centre in 2001 and has been active in a variety of areas including:

- O   the Auto-ID Automation Laboratory in Cambridge
- O   development of the PML Service / EPC Information Service
- O   web-based graphical interfaces for remote visibility/tracking
- O   web-based Auto-ID business calculator to calculate benefits, ROI etc.
- O   Auto-ID European adoption programme
- O   data-driven conversion engine to support multiple EPC tag data standards

Mark has written and co-authored a number of Auto-ID Centre white papers and has given presentations on Auto-ID at board meetings, the EPC Symposium and elsewhere.

Mark was involved with the initiation of the Auto-ID European Adoption Programme, which is co-ordinating Auto-ID pilot activities in Europe.

Mark has a first class BA and PhD in Physics from the University of Cambridge. Following his PhD, Mark was a Research Fellow at St. John's College, Cambridge from 1994-1997. After further research at the Universitat Marburg in Germany during 1997-1999, Mark returned to Cambridge, joining Cambridge Advanced Electronics plc. as a Software Engineer. With CAE, Mark initially undertook work for Cambridge Display Technology and Plastic Logic Ltd., then became actively involved in the development of an internet data synchronisation service and automated data capture tools for Internet-Extra Ltd.

Riad Hartani

Chief Network Architect, Caspian Networks

Dr. Riad Hartani is a Chief Network Architect with Caspian Networks in San Jose, a developer of next generation packet/optical switching systems. Prior to that, he held senior engineering and research positions with Nortel Networks in Ottawa, Hitachi Central Research Labs in Tokyo, the University of California at Berkeley and the French National Research Center in Paris. He obtained his doctorate in Computer Science with "highest honors" from the University of Paris in 1995.
His major interests include packet and optical networking systems design and networking architectures. Riad is also an active contributor to the IETF, ATMF, IEEE and the OIF.

Toshiyuki Hosaka

IP Business Group, Japan Network Information Center

1995   Joined International Digital Communications (now Cable and Wireless IDC) in the role of Internet Service Planning and Sales.

2002   Joined Japan Network Information Center (JPNIC) and has focused on international research and collaboration on address policy.

Hiro Hotta

Director, Corporate Planning

Japan Registry Services Co., Ltd. (JPRS)

Hotta is responsible for corporate planning and business development of JPRS. He is also a Council member of ICANN ccNSO. Before coming aboard to JPRS, he engaged in research and development of products and services at NTT. He served as a council member of ICANN DNSO, a member of ICANN IDN Registry Implementation Committee and Chair of APIA (Asia & Pacific Internet Association). He holds Master's degree of Electronic Engineering from Osaka University.

Hideo Ishii

Director and Chief Architect, IP Engineering

Asia Netcom

Ishii joined AsiaNetcom in March 2003. He has been Director IP Engineering and working on the Network Design, Engineering, development and implementation of the AsiaNetcom Global IP/MPLS network.

Prior to this position, He held the position of Director, IP Network Engineering and Operation for Global Crossing Japan , AsiaGlobalCrossing, where he was responsible for the Operation and Engineering of the Asia GlobalCrossing IP/MPLS network. In addition, He worked with Global Crossing Advanced Technology Group and led the deployment of GlobalCrossing global IP/MPLS network and MPLS based IP-VPN in Asia.

He is co-chair of Asia-Pacific Network Operators forum (APOPS) under APNIC. He is also a founder of Japan Network Operator's Group (JANOG) and MPLS program committee of MPLS Japan Technical conference in Japan.

Satoshi Ishiyama

Vice President, Corporate Planning and Business Development

NTT Communications

Satoshi Ishiyama is Vice President, Corporate Planning and Business Development, for NTT Communications.
Mr. Ishiyama joined NTT in 1980 and has more than 15 years experience in telecom/internet business strategy planning and new business development.
He is currently responsible for IPv6 applications development for NTT Communcations. He is also administration office representative of Ubiquitous Open Platform Forum (UOPF) and an executive member of IPv6 Promotion Council of Japan.

Shinichi Iwata

Product Manager, Ariel Networks, Inc.

Shinichi Iwata is a Product Manager in Ariel Networks, a "Peer-To-Peer (P2P) company." He is responsible for P2P applications such as P2P group-ware and Ariel ProjectA. He is also an evangelist/consultant on P2P technologies and P2P applications.

background

- O Graduated from Keio University in Physics.

- O Worked for Lotus Japan R&D center as a software engineer responsible for Domino for AS/400, NotesPump (Lotus Enterprise Integrator).

- O Worked for Microsoft MSN division as a network-PM.

Joel Jaeggli

Network Applications Specialist, Computing Center, University of Oregon

At the University of Oregon I divide my time between supporting the HPC and large-scale application needs of our campus user community, and system administration, support and teaching activities for various projects housed at the U of O. They include the Oregon Videolab, Network Startup Resource Center, Oregon Routeviews project, and the Beyond BGP Project.

Merike Kaeo

Chief Network Security Architect - Double Shot Security, Inc.

Merike Kaeo is the author of 'Designing Network Security', published by Cisco Press, which has been published in eight languages and is being used as a curriculum textbook in a variety of network security courses. She was a lead member of the first Cisco security initiative, has acted as a technical advisor for numerous security start-up companies, and has been an instructor and speaker at a variety of global security-related conferences.

Merike is a member of the IEEE and was the co-chair of the IETF IPPM (IP Performance Metrics) working group from 2000-2003. Prior to founder her own company, Merike was employed by Cisco Systems, Inc., where she worked primarily on technical issues relating to router performance, network routing protocols, network design, and network security.

Merike received her BSEE from Rutgers University in 1987 and completed her MSEE degree from George Washington University in 1998.

41

Meng-Chow Kang, CISSP, CISA

Chief Security & Privacy Advisor, Microsoft Asia Pacific

Based in Singapore, Meng-Chow is the regional Chief Security & Privacy Advisor for Microsoft Asia Pacific region. His current responsibilities include developing and implementing the Microsoft's trustworthy computing strategy in the region, and providing advice and guidance to customers and IT professionals on security best practices and solutions for implementing and managing information security in their organizations.

Meng-Chow has been a practicing information security professional for more than 17 years, with experiences spanning from technical to management in the various security and risk management roles that he has held in the Singapore government, major financial institutions, and security technology provider. His last position prior to Microsoft was Vice President and Regional Information Risk Officer of JPMorganChase.

Meng-Chow has recently been appointed as a board member of the Asia Advisory Board for the International Information Systems Security Certification Consortium (ISC2). Since 1998, Meng-Chow has also been concurrently chairing the Singapore's IT Security and Privacy Standards Technical Committee (SPSTC).

Meng-Chow received his MSc degree in Information Security (with Distinction) from the Royal Holloway and Bedford New College, University of London. He has been a Certified Information Systems Auditor (CISA) since 1997, and a Certified Information Systems Security Professional (CISSP) since 1998.

Arun Kant

President and CEO

Applico Security

Mr. Kant is well recognized in the IT industry as a visionary and renowned expert in the area of Switching technologies and Enterprise Systems and Security Management and has over 18 years of technical and managerial experience with network, software design and development, and has an in-depth knowledge of large-scale project implementations including e-commerce, the economics, and use of standardized hardware and software strategies. He has extensive background in hardware, software development coupled with experience in deploying the technologies. Mr. Kant also has been extensively written in various trade magazines.

At Applico Security as a Founder Mr. Kant is involved in developing leading edge security technologies for voice data convergence leading to MOIP switches.

Matt Kolon

Senior Technical Solutions Manager, Juniper Networks

Prior to coming to Juniper he was a Senior Member of Technical Staff for Hill Associates, a telecom training and consulting firm, and a consultant in private practice in New York City. He is a regular speaker at networking conferences and trade shows, including APRICOT, NANOG, MPLS Forum Japan, and SuperComm. Matt is an author of two books, "IP Telephony" McGraw-Hill, 1999) and "Juniper Networks Routers: The Complete Reference" (McGraw-Hill, 2002), and has published many technical and non-technical articles in industry journals and elsewhere.

Vach Kompella

IP Networks Division, Alcatel

Mr. Kompella is a Distinguished Member of Technical Staff with the IP Networks Division of Alcatel, specializing in the development of MPLS protocols and services. He is an active participant and co-author of standards work in the IETF's L2VPN and PWE3 working groups and has been published in IEEE and ACM journals. He is best known as co-author of ietf-draft-l2vpn-vpls-ldp (formerly draft-lasserre-vkompella) and is a leading contributor to the standardization and deployment of multi-point Ethernet services. Previously Mr. Kompella was networking architect at Network Alchemy, a developer of VPN solutions acquired by Nokia, and a senior staff engineer with IBM's Network Software Division, leading SNA/IP integration strategy and firewall development. Mr. Kompella received his Bachelor of Technology in Computer Science from the Indian Institute of Technology, Kanpur and his Ph.D. in Computer Science from the University of California,San Diego. He has also received research fellowships from IBM, Loral and DEC.

Okhwa Lee

Associate Professor

Dept. of Computer Education

Chungbuk National University

Dr. Okhwa Lee is a Professor of Computer Education at Chungbuk National University in Korea after receiving BS from Ewha women's university in Korea and Master's and Ph.D. from the University of Wisconsin USA.
Before she joined the Chungbuk National University, she was a research fellow at Korea Educational Development Institute (KEDI) and Korea Advanced Institute of Science and Technology (KAIST) where she participated in the development of educational policies and dissemination of the computer education for primary and secondary school levels in Korea.

Dr. Lee's work includes e-learning for tertiary level as well as primary and secondary level and vocational education and informal education. She is an author of 7 books (the most recent one is educational content design in 2004) and about 50 articles on topics such as online learning, development of instructional contents, collaborative learning technologies, computer education curriculum and instructional materials development, professional development and dissemination of educational Innovation. She has been a speaker on

distance learning, online teaching and learning at conferences and universities in Taiwan, Australia, Thailand, Indonesia, Cambodia, Philippines, Japan, Russia and the USA for more than 18 years. She has been active in various international organizations (UNESCO, UNDP) and professional societies such as Internet Society, international contents contest ThinkQuest, educational technology society and computer education society.

She has been a committee member for various board meetings of the government (ministry of education, ministry of industry and resources, ministry of government and home affairs, ministry of science and technology). She can be contacted at ohlee@cbnu.ac.kr or via her homepage at http://edu.chungbuk.ac.kr/~ohlee/.

Sam Lee

National Computerization Agency

- Univ. of Colorado at Boulder, BS, Computer Science Applications with Math.
- Dongguk Univ. at Seoul, ME, Computer Security
- worked at Korea Information Security Agency
- Currently with NCA (National Computerization Agency) as a Senior Researcher

Yeong Ro Lee

Director of BcN (Broadband convergence Network) Planning Department

Leader, Home Network Trial Projects

National Computerization Agency (NCA), Korea

Received B.E and MBA of Management Information System.
In 1986 he joined to the LG Group, where he started his career as a system engineer of Optical Communication System design, LAN and CATV network integration. Since joining NCA in 1996, he has been involved in many NII projects and IPv6 promotion. Now he is responsible for National BcN deployment plan and BcN pilot projects on KOREN.

James Lick

Chair of the Asia Pacific Coalition Against Unsolicited Commercial Email

(AP CAUCE)

James Lick has been involved in Internet technologies for over 16 years and has been active in anti-spam issues for over 9 years. He has been active in operating a small ISP, tcp.com, for over 12 years, and is currently an IT Consultant for a variety of small businesses. His prior experience includes 8 years as a SysAdmin and IT Architect for Sun Microsystems.

Edward Lewis

Senior Technology Industry Liaison, NeuLevel/NeuStar

Edward Lewis has travelled far and wide, worked long and hard to bring the DNS Security Extensions into reality. Beginning with implementing the first zone signer, he has spent considerable time working within the IETF, conducting workshops and training sessions on DNS and DNSSEC, including activities in the Asia-Pacific region at APRICOT conferences in 2001, 2002, and 2003 and KRNIC in 2004.

Currently he is employed by NeuStar/NeuLevel to perform liaison activities between internal registry operations and external organizations. Prior to joining NeuStar/NeuLevel he worked for the American Registry for Internet Numbers (ARIN), Network Associates, Trusted Information Systems, the University of Maryland-Baltimore County, and the U.S. National Aeronautics and Space Administration.

At each employment stop the Internet, especially the DNS, has been a big part of his daily responsibilities.

Yan Ma

Professor, Beijing University of Posts and Telecommunications

Prof. Ma Yan has been in the executive committee of China Education and Research Network (CERNET) since 1994. He is the co-supervisor of CERNET NIC dealing with the IP address allocation/assignment and domain name registration. He has also been in charge of the operation of North China regional network of CERNET, which connects the universities in Beijing, Shanxi and Inner Mongolia.

He is deputy director of Information Network Center of Beijing University of Posts and Telecommunications (BUPT). His responsibility is for the planning, construction and operation of computer campus network of BUPT since 1994. He has lots of experience on the IP addressing technical plan as a campus network administrator.

He is a professor in Computer Science and Engineering Department of BUPT and has been teaching and doing research in the field of computer network and telecommunications since 1982. He has been leading several national key technology research projects, including network management, mobile and wireless network, IPv6, multimedia transmission and distance learning. He is doing consulting work for Telecoms in China.

He is also very active in the Internet related international events. He was the ex-convenor of APEC TEL HRDSG (Human Resource Development Steering Group) during the year of 2000-2001. He has successfully leaded the HRDSG taken the job.

Hiroshi Mano

CEO, ROOT Inc.

ROOT Inc., which Hiroshi Mano has established in 1993 provides highly sophisticated solution for Digital wireless communication, and has developed a series of high-speed wireless IP routers, which has been introduced to many Japanese schools and local government agencies.
Mano has also participated in numerous government funded R&D projects and local government committees to promote the computerization of the rural areas in Japan with wireless IP technology.
Mano has authored several treatises and books regarding the configuration of Wireless IP networks and its better application to actual projects.

Date of Birth: 1960 in Tokyo
Academic Background: Bachelor of Engineering, Shonan Institute of Technology (1983)
1983: KASUGA SEIKI MFG. CO., LTD.
1986: ASIA ELECTRONICS INC.,
1988: CREATE-GIKEN,INC., Director
1993: Established ROOT Inc., CEO

Vesna Manojlovic

Advanced Courses Trainer, RIPE-NCC

Vesna Manojlovic has been working as a trainer for RIPE NCC for 6 years. Three years ago she developed an hands-on course: "Routing Registry for LIRs" (together with Andy Linton, network engineer from Wellington, New Zealand). She's been delivering and further developing this course since, giving presentations on related conferences, and researching on tools for utilising Routing Registry and configuring routers based on RPSL information.

Yoichi Matsumoto

Chief Networkconsultant

Networkconsulting Department

Network Solution Division

NETMARKS INC.

After gaining experience with a domestic integrator,

1999   Joined NETMARKS INC.

2000   System Engineer on the first domestic IP Telephony system introduction to a large enterprise in Japan

2003   Has been working as a consultant on IP Telephony after designing IP Telephony systems for numerous enterprises

Danny McPherson

Director of Business Development, Arbor Networks

Prior to joining Arbor, Danny was Director of Emerging Technology at Amber Networks, which was acquired by Nokia. He has more than 10 years experience as a network architect for global Internet Service Providers such as Qwest and MCI.

Danny currently chairs the Internet Engineering Task Forces (IETF) PWE3 Working Group and is a member of several IETF Area directorates and Internet research groups. He is a common contributor within the Routing, Operations, and Internet Areas of the IETF and global network operations community, and is active within VPN & MPLS standardization and deployment effort. He is also a member of the FCC's Network Reliability and Interoperability Council (NRIC) and the MPLScon Advisory Board. He has authored a number of Internet protocol standards, books and other documents related to Internet routing protocols, network security, Internet addressing and network operations. His most recent work, Practical BGP, was published in mid-2004.

Itaru Mimura

Department Manager, Technology Marketing Dept.

Alaxala Networks Corporation

Itaru Mimura joined the Central Research Laboratory Hitachi Ltd., in 1984, where he has worked on digital video signal processing, High-Definition video ATM-CODEC and IP network equipment such as Giga/sub-terabit routers.
His research effort was adopted Hitachis Gigabit router product (GR2000/4000).
In October 2004, he joined ALAXALA Network that is joint Network Equipment Company funded by NEC and Hitachi. His new job is development technologies breakthrough for next generation IP router/switch products.
He was a research affiliate of the Media Laboratory, MIT from 1991 to 1992.
Recently, he is elected as a Board of Governors of the IEEE Computer Society, and will serve as the position 2005-2007.

Hao Min

Director and Professor

Auto-ID Lab at Fu Dan Universityr

Shanghai, P.R. China

Hao Min is currently research director of Auto-ID Labs at Fudan University. He is also professor and director of ASIC & Systems State

Key Laboratory, Fudan University.

Hao got his Ph.D degree from the department of material science, Fudan University in 1991 and then served as an associate professor in the ASIC & Systems State Key Laboratory of Fudan University. From 1995 to 1998, he worked as visiting associate professor in the department of electrical engineering, Stanford University, USA focusing on low power mixed signal VLSI design especially on the design and characterizing of CMOS image sensors. At the same time, he worked as a consultant for several semiconductor companies.

From 1998, he served as professor and director of ASIC & Systems State Key Laboratory, Fudan University and worked on the smart card and RFID chip technology.

Dr. Min's research areas include VLSI architecture, mixed signal IC design, digital signal processing, image processing, etc. He has published more than 40 papers in journals and conferences.

Jin Mitsugi

Keio University, Auto-ID Labs. Japan

Jin Mitsugi received BS from Nagoya University and MS from Tokyo University in 1985 and 1987, respectively. He joined NTT Electric Communication Laboratory in 1987 and had been working in the field of Satellite Communication. He received doctor degree from Tokyo University in 1996. He has been serving as Associate Director for Auto-ID Lab Japan since April of 2004.

Hiroshi Miyata

Yokogawa Electric Corporation

He graduated from the Faculty of Science, the Hokkaido University in 1988.
Joined Yokogawa Electric Corporation in 2001. He is working for TAHI Project since 1998. Initially he was in charge of interoperability test.
Now he is also in charge of Conformance test. He is working for Certification WG of IPv6 Promotion Council(v6PC) as the vice chairman since 2002. And he is working for v6LC, which is running the IPv6 Ready Logo Program, as a Technical Officer since 2002.

- O Chairman of TAHI Project
- O Vice Chairman of Certification WG of v6PC
- O Technical Officer of v6LC

Mikio Mizutani

Executive Vice President, CTO

Panasonic Communications Co., Ltd.

1974
Graduated with an undergraduate degree in Electrical Engineering
Kyoto University

1974
Joined Sagamihara Laboratory, Takachiho Burroughs Corporation
(later Nihon Unisys, Ltd.)

1978
Graduated from Graduate School of Information Science and Technology
Tokyo University

1978
Joined Matsushita Graphic Communications

In the 1980's, Mizutani worked on the development of the PSTN modem and the establishment of the ITU V series recommendations.

In the late 1990's, he worked on the standardization of FAX over IP technology, contributing to IETF RFC2305. Of recent he has focused his efforts on the promotion and deployment of IPv6. At Panasonic, Mizutani has furthered the advancement of the VoIP, Network Camera, FAX over IP and Home Networking business groups.

He is currently CTO, Panasonic Communications Co., Ltd.

Muhammad Moizuddin

Technical Marketing Engineer

Cisco Systems

Moiz joined Cisco Systems in August of 1999. Initially, he worked at the Technical Assistance Center - TAC, where his focus was routing protocols and MPLS. Later on, he moved to Advanced Services where he worked on different SP accounts. Currently he is working as a Technical Marketing Engineer with primary focus on MPLS and related technologies. Moiz has an extensive experience in designing SP and Enterprise networks.
He has presented at various forums. Moiz has a MS in Electrical Engineering with specialization in Telecommunication from California State University Long Beach. He also has a CCIE in Routing/Switching

Tak Morinobu

NTT Communications

Tak Morinobu received a Master of Engineering from the University of Tokyo in 1997. He joined NTT in 1997, where he has worked as an engineer on design, implementation and operation of the NTT Global IP Network, ntt.net. He also worked on the developing numerous global IP services on the ntt.net network.

Currently, he works with various enterprise companies to accomodate various network systems nationwide in Japan.

Monique Morrow

CTO Consulting Engineer, Cisco Systems, Inc.

Monique Morrow is currently CTO Consulting Engineer at Cisco Systems, Inc.
She has over 20 years experience in IP internetworking that includes design, implementation of complex customer projects and service development for service providers. Monique has been involved in developing managed Network Services like Remote Access and LAN Switching in a Service Provider environment.
Monique has worked for both enterprise and service provider companies in the United States and in Europe.
Monique led the Engineering Project team for one of the first European MPLS-VPN deployments in 1999 for a European service provider.

Monique is co-author of the book Designing IP-Based Services: Solutions for Vendors and Service Providers (Morgan-Kaufmann, 2002). Monique has been a technical reviewer for the book, International QoS Architectures and Mechanisms, Zheng Wang (Morgan-Kaufmann, 2001); she has contributed a chapter on MPLS in the book, Networks : Internet-Telephony-Multimedia, Convergences and Complementarities, De Boeck Diffusion, 2002 (France Telecom Lead) and was content reviewer for the book, MPLS and VPN Architectures, Vol 2, Jim Guichard et al, Cisco Press, 2003.

Monique is currently working on three books one exploring business aspects for MPLS; another discussing security for MPLS-VPN and the third book that presents enterprise drivers and concerns for IP-based service delivery.

Monique is active in both the IETF and ITU-T SG 13 with a focus on OAM. She has a M.S in Telecommunications Management and an MBA. Monique is also a Cisco Certified Engineering Expert (#1711).

Jun Murai

Professor, Faculty of Environmental Information

Keio University

Born in March 1955 in Tokyo.
Graduated Keio University in 1979, Department of Mathematics, Faculty of Science and Technology
MS in Computer Science from Keio University, 1981
Ph.D in Computer Science, Keio University, 1987

Executive Director, Keio Research Institute at SFC
President of Japan Network Information Centre (JPNIC).
Appointed as one of the Advisory Members of IT Strategy Headquarters established within the Cabinet in August 2000.

Adjunct Professor at Institute of Advanced Studies, United Nations University.
He also teaches at Tokyo University of Art and Music.

Specialized in computer science, computer network and computer communication.

Recent publications include "Explorers! of the Wonderful Internet", Tarojirosha Editus Co Ltd. September 2003
"Internet II", Iwanami Publication, July 1998
"Evolution and Revolution of the Internet in Japan", Proceedings of CyberJapan: Technology, Policy Society Symposium, The Library of Congress, May, 1996

1992: Chairman of Local Arrangements INET92 Kobe
1993-1995: a Member of the Internet Architecture Board (IAB)
1996-1997: a member of IAHC
1997-2000: Board of Trustees of the Internet Society (ISOC).
2000: INET2000 Program Co-Chair
1998-2003: The Internet Corporation for Assigned Names and Numbers (ICANN) Board of Directors

Hiroki Muramasu

Network Operations Division, Planning Sec.

Operation Planning Group

SoftbankBB Corp.

He received a Master of Engineering from the University of Kyushu in 1997. After joining NTT, he gained experience of the following tasks mainly.

O NW Design and Service Planning to launch ISP business of some oversea companies.

O NW Implementation & Operation for OCN & NTT/VERIO

From 2003, he joined SoftbankBB Corp. and lead the Yahoo!BB backbone network operation. Currently, he's in charge of total operation improvement as a manager of the Operation Planning Group.

Ken Nagami

Chief Scientist

General Manager Research and Development Division

Intec NetCore, Inc.

Born in Kanagawa in 1967.
He received a B.S. degree from Chiba University, Japan, in 1990 and M.S.
Degree from Tokyo Institute of Technology, Japan, in 1992.
In 1992, he joined the Research and Development Center at Toshiba Corporation, where he began research, development, and operational work on a cell switching router (CSR) design which would become the basis of label switching technologies such as MPLS. He concurrently worked on standardization of the technology in the IETF MPLS working group where he authored RFCs concerned with the CSR and MPLS.

He received a Ph.D from Tokyo Institute of Technology, Japan, in 2001, and joined Intec NetCore, Inc. in 2002 as Chief Scientist General Manager, Research and Development Division

Activities:

Area Director of WIDE Project Security Area Chair of WIDE Project LAST(LAbel Switch Technology) WG

Secretary of Next Generation IX Consortium

Chair of MPLS Japan 2001/2002

Editor of English Transactions of The Institute of Electronics, Information and Communication Engineers

Secretary of Internet Architecture Consortium of The Institute of Electronics, Information and Communication Engineers

Presentations at IPv6 Summit, N+I, JANOG

Fellow researcher of Telecommunications Advancement Organization (TAO) of Japan

Publications:

MPLS Textbook(IDG Japan)

IPv6 Textbook(IDG Japan)

How to build and practice IP/Security/Network(IE Institute)

Ikuo Nakagawa

Intec NetCore, Inc.

Received Master of Science from Tokyo Institute of Technology, Japan in 1993. He joined Intec, Inc. in 1993. Since joining Intec, he has been conducting laboratory research of Internet management and operations, next generation Internet technology, IX (Internet eXchange) and MPLS.

He established Intec NetCore, Inc. in 2002. He has been furthering research in the areas of MPLS and "Reliable Network Technologies".

Major activities:

Board member of Next Generation IX Consortium

Board member of Regional Internet BackBone

Steering member of ITRC

GLOCOM Fellow

NICT Fellow

etc.

Simon Newstead

Product Manager, APAC, Juniper Networks

Simon Newstead is the Product Manager responsible for Mobile, Voice and Edge for Juniper Networks in Asia Pacific, based in Hong Kong.
In this role, Simon works together with leading wireless and voice/NGN operators in Japan, Korea, China and other parts of Asia Pacific, helping to define and rollout new services, and in the design the network infrastructure to support them.

Vincent Ng

TME, CCMSBU

Cisco Systems, Inc

Mr Vincent Ng is a Technical Marketing Engineer for Cisco's CCMS Business Unit, which develops the CRS-1 and GSR Core IP Router. He supports the Asia Pacific region and his focus is on IP/MPLS core routing technologies.
Vincent has been in the internetworking industry for over 10 years and joined Cisco in 1999. Prior to Cisco, he has held several Consulting and Project Management positions for Equant, Ascom Timeplex and Dowty, and he has got his CCIE since 1996.

47

Itsuro Nishimoto

JSOC Chief Director

Little eArth Corporation Co., Ltd. (LAC)

1984   Joined TDI, Co., Ltd.

1986   Joined Little eArth Corporation Co., Ltd. (LAC)

He worked on the development of communication software and middleware. Subsequently, he carried out initial development and introduction of Open POS (Windows POS) systems, cooperating with Siemens Nixdorf in Germany. Nishimoto continues to focus on the operation of durable systems from the point of view of prevention from illegal access.

He has lectured frequently on Information Security at the College of Land, Infrastructure and Transport, Government Ministries, exhibitions, and conferences.

He is currently the JSOC (Japan Security Operation Center) Chief Director at Little eArth Corporation Co., Ltd. (LAC), a Director of the NPO Japan Network Security Association and holds a seat at the Graduate School of Science and Technology, Kumamoto University.

Shoji Nishiura

Technical Div. IP-CORE Planning Dept. Network Integration Group

Vodafone

Shoji Nishiura is the group leader responsible for planning and designing of 3G mobile IP/Packet network for Vodafone Japan. Before joining Vodafone, he served as an senior solution architect of OSS and management systems for Telecom and Next Generation Networks at Agilent Technologies and Hewlett-Packard.

Joel Obstfeld

Technical Leader, Cisco Systems

Joel Obstfeld has been with Cisco Systems since 1998. He is a technical leader within the IOS-XR Deployment Engineering team focussing on the CRS-1. Previous role have included critical and strategic account engagement with major 12000-series customers both in EMEA and Asia-PAC as well as Advanced services support for major EMEA ISPs such as British Telecom. He has extensive practical experience of implementing and supporting large-scale service provider routing environments.

Yasuo Okabe

Professor, Academic Center for Computing and Media Studies, Kyoto University

1988.3 M.E. in Computer Science, Kyoto University.
1988.4 Instructor, Faculty of Engineering, Kyoto University.
1994.7 Associate Professor, Data Processing Center, Kyoto University
1998.4 Associate Professor, Graduate School of Informatics, Kyoto University
2002.4 Professor, Academic Center for Computing and Media Studies, Kyoto University

Keiko Okawa

Associate Professor

Keio University Graduate School of Media and Governance

President, School on Internet Research Institute

After 12 years of computer industry experience, she started her research on "Internet and the higher education" area at United Nations University, Institute of Advanced Studies in 1996. She has been leading the "School of Internet (SOI)" research group in WIDE Project since 1997 where she conducts reserach and expreiment of distance education.

She received a Ph.D. in Media and Governance from Keio University in 2001 and a Master's Degree in Engineering from Keio University in 1985.

Dr. Koji Okamura

Associate Professor, Computer and Communications Center

Kyushu University

Dr. Koji OKAMURA is a Associate Professor at the Computer and Communications Center, Kyushu University, Japan.

He received B.S. and M.S. Degree in Computer Science and Communication Engineering from Kyushu University, Japan. He worked as a researcher of MITSUBISHI Electronic Corporation, Japan for several years and as a Research Associate at the Graduate School of Information Science, Nara Institute of Science and Technology. Japan and Computer Center, Kobe University, Japan.

He is a member of WIDE, ITRC, GENKAI, HIJK projects which focus on Asia and the Application Area Director of APAN.

His interests are Internet and Next Generation Internet, Multimedia Communication and Processing,Multicast/IPv6/QoS. Human Communications over Internet and Active Networks etc.

Hualin Qian

Computer Network Information Center

Chinese Academy of Sciences

Prof. Qian has over 30 years experience in the computing industry and has been responsible for many of the major technology projects in China.

He has made important contribution in bringing the Internet to China since1989 and finished the first Internet full function connection for China in 1994. In the same year, he finished the construction and operation of Top Level Domain of China (.CN). He involved in many APNIC activities in early days of APNIC, including co-organizing APNIC seminars and meetings in Beijing since 1995. He was the person applying he first class B IP address for the first large Internet project NCFC in China. He was responsible for designing and manufacturing the earliest PC-FAX system (Data/Fax/Voice hardware and software system) in China 1986 and developed the first X.25 network in China 1984. He currently serves as deputy director at CNNIC Steering Committee, EC member of APNIC, board member of APTLD, board of directors of ICANN, chair of CDNC, and deputy director at the Computer Network Information Center, Chinese Academy of Sciences. Previously he served as head of the networking division at the Institute of Computing Technology, Chinese Academy of Sciences, which is the cradle of computing technology in China. And he also served as deputy chief engineer at the Legend Group Corporation (Now changed the name to LENOVA), which is the largest computer manufacturer in China. He is supervising master degree and doctoral students and published more than 80 papers and books. He has also been a visiting scholar at Georgia Institute of Technology in the United States from 1980 to 1982.

Robert Raszuk

Cisco Systems

Robert Raszuk in currently a part of the Deployment & Architecture Group in Cisco System's IOS Engineering Core IP Team with BGP focus. He has over 12 years experience in the computer networking industry focusing on large scale routing and MPLS. Currently he helps worldwide networks deploy BGP & MPLS applications and contributes to the protocol's architectures in IETF to accommodate customers' new requirements.

Syed Khalid Raza

Distinguished Engineer, Cisco Systems

As a recognized expert within Cisco and worldwide ISP community, has been designing large scale IP and MPLS networks for over ten years. Expertises in the area of IP routing protocols (OSPF, ISIS and BGP), MPLS and ISP networks. Represent Cisco for industry panel discussion and technical conferences around the world and discusses technologies/protocols related to large scale ISP and NRN networks. Produce technical white papers and co-author of a book called "Large Scale IP Network Solutions". Khalid holds a Bachelor's degree in Electrical Engineering and a Master's degree in Industrial Engineering from USA.

Muhammad Waris Sagheer

Senior Software Engineer, Cisco Systems Inc

Muhammad Waris Sagheer works for Cisco Systems as a senior Software Engineer in the Core Internet Backbone Router Organization a.k.a Cisco 12000 Series, specializing in ATM and MPLS Technologies. He possesses 4+ years of experience in the design and deployment of High End Routers. In his current role, Muhammad Waris Sagheer has been working on the development of ATM technologies and Advanced MPLS on 12000 Series Platform. He has led several projects like 8xOC3 Engine 2 ATM Line card, 4xOC12 Engine 3 ATM Line card, 4xOC3 Engine 3 ATM Line card & AToM on Engine 3 ATM Line cards. He has also been providing design, consulting and escalation assistance to US, European and Asian Service Providers for ATM and MPLS Technologies. He has designed small and large scale MPLS networks for many Cisco customers deploying MPLS TE, L2 VPN and RFC 2547 based Layer3 VPN networks. Muhammad Waris Sagheer has presented on various MPLS related topics in the NETWORKERS conference, MPLS Power Sessions to European Service Providers & Enterprise customers and within different groups in Cisco Systems.

Michiko Sakai

Hitachi,LTD.

Michiko Sakai joined Hitachi, Ltd. in 1990 and has been working on the business planning of eGovernment and community information system.

She is also working on an international benchmarking study of eGovernment and design of public and commercial electronic services, as a member of eGovernment WG in Electronic Commerce Promotion Council of Japan since 2000.

Hideki Sakauchi

Business Development Div.

NEC Corporation

1983
MS, Graduate School of Science & Engineering
Waseda University

Joined NEC Corporation

Since joining NEC, Sakauchi has worked on the research and development of algorithms related to networking, the sales promotion of network equipment andadvancement of the IPv6 business unit. He is currently active within the Transition WG of the IPv6 Promotion

Council of Japan.

Ken-ichi Sato

Department of Electrical Engineering and Computer Science

Graduate School of Engineering

Nagoya University

He is currently a professor at the graduate school of Engineering, Nagoya University and he is an NTT R&D Fellow. Before joining the university in April 2004, he had served as an executive manager of the Photonic Transport Network Laboratory at NTT. His R&D activities cover future transport network architectures, network design, OA&M (operation administration and maintenance) systems, photonic network hardware systems including optical cross-connect/ADM systems and photonic IP routers, and optical transmission technologies. He authored/co-authored more than 180 research publications in international journals and conferences. He holds 35 granted patents and more than 100 pending patents.

He received his B.S., M.S., and Ph.D. degrees in electronics engineering from the University of Tokyo, Tokyo, Japan, in 1976, 1978, and 1986, respectively. He received the Young Engineer Award in 1984, the Excellent Paper Award in 1991, and the Achievement Award in 2000 from the Institute of Electronics, Information and Communication Engineers (IEICE) of JAPAN. He was also the recipient of the distinguished achievement Award of the Ministry of Education, Science and Culture in 2002. His contributions to ATM and optical network technology development extend to co-editing three IEEE JSAC special issues and the IEEE JLT special issue once, organizing several Workshops and Conference technical sessions, serving on numerous committees including OFC and ECOC, authoring a book Advances in Transport Network Technologies (Artech House, 1996), and co-authoring five other books. He is a Fellow of the IEICE of JAPAN and a Fellow of the IEEE.

Sadahiro Sato

General Manager of BB Phone Services Division

SOFTBANK BB Corp.

Aarti Iyengar

Solutions Architect

Polycom

- O 2000 PSINet Japan Inc., Director of Marketing Division
- O 2003 SOFTBANK EC Holdings Corp., Senior Manager of New Business Development Division
- O 2005 SOFTBANK BB Corp., General Manager of BB Phone Services Division

James Seng

Assistant Director (Next Generational Internet)

Infocomm Development Authority (IDA), Singapore

Chair, Asia Pacific ENUM Engineering Team (APEET)

James Seng is one of the Internet pioneers in Singapore and is recognized as an international expert in the Internet arena. He gave regular speeches at various forums on several Internet issues such as IDN, VoIP, IPv6, Spam, OSS and Internet goverance issues. James also participates actively in several standard organizations (such as ISO/IEC JTC1 and IETF) and also served on the board/committee of several Internet organizations.

Currently, James is the Assistant Director (Next Generational Internet) in Infocomm Development Authority (IDA) of Singapore. His team is responsible for tracking emerging and disruptive technologies on Internet and other related fields.

Mukhtiar Shaikh

Technical Leader, Cisco Systems

Mukhtiar joined Cisco in October of 1996. He is part of the Advanced Services Organization within CA with focus on IP routing protocols and MPLS Technologies. In his current role, he has been providing design, consulting and escalation assistance to the Advanced Services accounts for MPLS Technologies. In the last couple of years, he has led various MPLS related projects and have designed small and large scale MPLS networks for several Cisco customers deploying RFC 2547 and/or Martini based Layer2 VPN networks.

Tetsuji Shimizu

Broadband Access Service Division, NTT West

In June 2004 Shimizu was made Senior Manager, Broadband Access Service Division, Broadband Service Promotion Headquarters of NTT West. In this position he is in charge of development of optical fiber communications for IPv6.

1985   Joined NTT West Corporation

1995   Began work on service development in charge of the fibre optical broadband access service "B Flets Family-100" released as a service in September2002.

Richard Shockey

Senior Manager, Strategic Technology Initiatives

NeuStar Inc.

Richard Shockey is Senior Manager-Strategic Technology Initiatives for NeuStar, Inc. [www.neustar.biz] based in Suburban Washington DC. NeuStar provides a number of critical services to the communications industry including the administration of all telephone numbers in North America, management of the wireline and wireless Number Portability Administration, number pooling and OSS products for carriers. NeuStar also operates the .BIZ. Top Level Domain and manages the United States Country Code domain .US for the U.S. Dept of Commerce.

Mr. Shockey is an active participant in the Internet Engineering Task Force and a founder and Co Chair of its ENUM Work Group .

ENUM [RFC3761] has been frequently mentioned in the media as a key enabler of the convergence of the VoIP and traditional Telephony.

Mr. Shockey has been invited by the Dutch, British and Japanese governments to lecture on ENUM technology and its implications for consumers and carriers alike.

Mr. Shockey is frequent speaker at industry conferences worldwide and is also the author of numerous articles on Internet Telephony Technologies related to ENUM, SIP, Voice over IP and Internet Fax. He was featured on the Cover of Communications Convergence Magazine as a "SIP Luminary" in July of 2000 along with SIP pioneers Henry Sinnreich of WorldCom and Henning Schulzrinne of Columbia University.

Charles Smith

Senior Consulting Engineer & Network Architect

Academic Research & Technology Initiatives (ARTI)

Cisco Systems

Charles Smith is a senior consulting engineer and network architect within Cisco's Academic Research & Technology Initiatives (ARTI) Organisation. He specialises in new network infrastructure Technologies with particular focus on Ip Telephony, Optical Transport, 10 Gigabit Ethernet & IPv6. Charles in particular is the senior network architect for a number of National Research Networks (NRN's) including the Taiwan research network backbone (TWAREN), California research network backbone (CENIC) and the National Lambda Rail (NLR) initiatives in the United States. His role within the Cisco ARTI group now includes liaison between the Cisco business units and external researchers and research activities in the Asia pacific region, China, Japan & India.

Philip Smith

Cisco Systems

Philip Smith has been with Cisco Systems since 1998. He is part of the Internet
Architectures Group
under CTO Consulting Engineering. His role includes working with many ISPs in the Asia Pacific region, specifically in network design, configuration, scaling and training.
Prior to joining Cisco, he spent five years at PIPEX (now part of UUNET's global ISP business), the UK's first commercial Internet Service Provider.
He was one of the first engineers working in the commercial Internet in the UK, and played a key role in building the modern Internet in Europe.

Richard Stasny

Senior Analyst, OeFEG/Telekom Austria

Richard Stastny is a senior strategic analyst in OeFEG. OeFEG is a 100 % subsidiary of Telekom Austria, the incumbent telecom operator in Austria.
Before being privatized and split up, the company was as Post and Telegraphenverwaltung (PTV) part of the government. OEFEG was founded 25 years ago owned 50% by PTV and 12,5% by Siemens, ITT (later Alcatel), Kapsch and Schrack (later Ericsson) to first evaluate, specify and later deploy digital switching systems in Austria (Siemens EWS-D and Nortel DMS-100 (produced by Kapsch and Schrack). OeFEG is still responsible for the national specifications related to telecommunications (ISDN, SS7, GSM, IN; OAM, ...), performing acceptance tests for digital switching and OAM equipment. In the role of a national standards body OeFEG is ETSI member and actively participating in various standard bodies.

OeFEG is also consulting Telekom Austria in technical analysis and regulatory affairs and hosting platform of various national bodies (e.g. the Intercarrier platform (AK-TK) and Austrian ENUM platform)

Richard Stastny has studied Physics and Mathematics at the University of Vienna and has over 25 years of experience in computing and digital switching, working for Schrack and later OeFEG. He was involved in the adaptation of the digital switching system OES-D (DMS-100) and the introduction of OAM and billing systems within Telekom Austria. He is participating actively in various international standard bodies and fora such as ETSI, ITU-T, IETF, VISIONng and TMF. In the last years he was responsible in OeFEG for the convergence of NGN networks, the migration to IP based networks, IP Communications, VoIP and ENUM. Richard is also the chair of the Austrian ENUM platform.

Hideki Sunahara

Information Technology Center, Nara Institute of Science and Technology

Hideki Sunahara is a Professor in Information Technology Center at Nara Institute of Science and Technology, Nara, Japan.
His research focuses on ITS, computer architecture, parallel processing, distributed systems, operating systems, the Internet technology,

digital library and grid systems.

Sunahara reseived his B.S. and M.S. degrees in Electrical Engineering from Keio University in 1983 and 1985 respectively. He received his Ph.D. in Computer Science from Keio University in 1989. Sunahara is a member of ACM, IEEE, Internet Society, JSSST, IPSJ, and IEICE. He is also a board member of WIDE Project.

Shinsuke Suzuki

Hitachi Ltd.

SUZUKI, Shinsuke joined Hitachi, Ltd. in 1997 and has been working on the development of IPv6 routing protocols and the deployment of IPv6 in Central Research Laboratory. He is also a core member of KAME Project since 2000, and an network operator in various IPv6 networks (WIDE Project, Networld+Interop, IPv6 Summit, etc). Recently, he is working on the design of IPv6 security architecture in various communities, like Secure-6 WG in WIDE Project and IPv6 Transition WG in IPv6 Promotion Council.

Masakazu Takahashi

Chief Information Officer, Executive Security Analyst

Internet Security Systems K. K.

Takahashi is one of the leading authorities of establishing Security Operations Centers in Japan. He has been in charge of established security operations center for five companies.
In addition to above, Takahashi has a deep knowledge and experience in start-ups of consulting operations, establishing technical security audit methods and confirming the methodologies of IDS installation.
Currently, he is the security technology specialist representing Internet Security Systems, and develops the leading-edge technology of security device log analysis when cooperating with other CSIRTs.
Takahashi also does hands-on operations of security measures (policy and technology) as the CIO within Internet Security Systems K. K.

Toru Takahashi

Vice Chairman, Internet Association Japan

He was born at Utsunomiya city, Tochigi Pref., Japan, on Jan., 1941. He graduated Tohoku Univ., Literature & Philosophy course, majoring Aesthetics and History of Arts in 1964. After working in publishing world as an editor and writer, in 1982, he joined Laboratory of Innovation for Quality of Life, a think tank, in charge of Videotext marketing and New Media Community Plan by MITI. 1986, he moved to Digital Computer Ltd., to be a project manager of UNIX workstations and incubation of router based high speed LAN. From 1987, he has researched about the Internet and served as a board of directors of Japan UNIX Society (jus). From 1989, he has organized INTEROP technical tour group with Dr. Jun Murai. 1993, he joined Ziff-Davis Japan to organize NetWorld+Interop 1994 Tokyo. December 1993, when Internet Association of Japan (IAJ) started, he was appointed to be secretary general. December 1994, he was invited to be president of Tokyo Internet Corp, a top level ISP. 1997, he became Chairman of IAJ and planned to invite INET2000 Yokohama. He was conference co-chair of INET2000 Yokohama. From 1998 to 2000, he has served as Chairman of Executive Council of APNIC. In 2000, he built a new consulting firm, Research Institute for Internet Strategies (RIIS), Inc. as chairman of the board. From 2000 April to 2002 March, he had been a professor at Tama Art University, Information Design Division. In July 2001, new foundation Internet Association Japan (IAjapan) formed, he has been appointed to be senior vice president. In January 2002, he became interim Chairman of Asia & Pacific Internet Association (APIA) and Treasurer. He is Chairman of Executive Committee of NetWorld + Interop Tokyo from 2002. Now, he is lecturing at several universities including Tama Art Univ., Bunkyo Univ., and Reitaku University, on the Internet, Network Business and International Network.

Thomas Telkamp

Director of Network Consulting, Cariden Technologies, Inc.

Thomas Telkamp is responsible for ensuring successful deployments of Cariden's products, and guides product development. Previously, he was working for Global Crossing as Director of Network Engineering, Director of IP Global Architecture, and Director of Networking Research. Before joining Global Crossing, Thomas was as a consultant involved with AT&T-Unisource Communications Services, SURFnet Expertise Centrum, SURFnet, DANTE and Wunderman Cato Johson.

Mark Townsley

Distinguished Engineer, Cisco Systems

Mark Townsley has been at Cisco Systems since 1997 and is the Chair of the IETF L2TPEXT Working Group and Technical Advisor for the IETF PWE3 Working Group. Mark has authored a number of RFCs and Internet Drafts including "L2TP" (RFC 2661). Prior to his tenure at Cisco, Mark was employed by IBM?s Networking Hardware Division, the Center for Satellite and Hybrid Communications Networks and The Institute for Systems Research in College Park, MD, AIMS Research in Silver Spring, VA. and Southern Research Institute in Birmingham, Alabama.
Mark holds a Bachelors degree in Electrical Engineering from Auburn University, and a Master's degree in Computer Science from Johns Hopkins University.

Tom Vest

Research Officer

Packet Clearing House

Tom Vest currently works for Packet Clearing House (PCH) as research and policy expert. His main area of work is mapping the growth of Internet Routing Tables to conventional economics. Prior to joining PCH, Tom Vest was Network Manager for AOL Japan, where he

oversaw the development of AOL's Asian Network. He has good knowledge of network situation in Japan and Asia. Before moving to Japan, Tom Senior Project Manager with America Online Inc. Within the Internet Operations Division of AOL, he was responsible for international peering arrangements, international POPs and distributed web cache projects, and international leased circuits. Before joining AOL in 2000, Tom worked on a variety of international projects for the PECC Telecommunciations Forum, the Carnegie Corporation of New York, the Pacific Council on International Policy, and the Office of Economic Development of the City of Los Angeles. In an earlier incarnation, Tom performed and recorded in China, Hong Kong and Taiwan with the international jazz fusion group Identity Crisis (Ziwo Fangzhu). He is currently working on his PhD dissertation in telecommunications.

Ryuji Wakikawa

Research Associate, Graduate School of Media and Governance

Keio University

Wakikawa received his M.E. and PhD degree in Media and Governance from Keio Univ. in 2004. His research interests are mobile computing, Mobile IP, Mobile Ad-hoc Network, and Mobile Network. He is a member of the WIDE Project.

Fumio Watanabe

General Manager,

Wireless Broadband System Development Department

"au" Technology Division, KDDI Corporation

Dr. Watanabe received the B. S. and Dr. E. degrees in electronic engineering from Tokyo Institute of Technology in 1975 and 1980, respectively. He joined R&D Laboratories of KDD in 1980 and engaged in research and development on antennas, satellite communication systems, and mobile communication systems. He was a vice president of KDD R&D Laboratories Inc from 1998 and the director of IMT-2000 Business Development Office of KDD from 2000. He is now General Manager of Wireless Broadband System Development Department in "au" Technology Division of KDDI. He received Piero Fanti International Prize in 1989, the R&D Awards of Radio Systems awarded by RCR in 1991, the meritorious Awards on ITU activities from ITU-AJ in 2001, respectively.
He is a vice-chairman of 4G Mobile Committee of the Mobile IT Forum (mITF), and the chairman of the "Dokodemo" Network Committee of the Ubiquitous Networking Forum.

Mitsuteru Watanabe

Solution Development Department

Partner Alliance Business Division

Network Solution Division

NETMARKS INC.

After working for a system manufacturing company,

2000   Joined Softfront Responsible for sales support after learning and developing H.323/SIP VoIP

2003   Joined NETMARKS INC. Consulting and Solution Development Department Responsible for solution development employing SIP for IP communication

Lim Wong

Consulting System Engineer, Cisco Systems

I have been in IT and telecom industry for 17 years. I spent the last 9 years with Cisco serving as network consultant for the company Enterprise and Service Provider field operations. I have been engaged in many large enterprise and metro network designs, and also assisted with numerous complex network deployments. Prior to Cisco, I spent ten years with Hughes Aircraft Company managing the company wide area network. As the chief architect of the network, I designed the IP, IPX, AppleTalk and DECnet addressing scheme, the Domain Name Service structure and the Internet mail routing gateways.

Meng Weng Wong

Founder, CTO, pobox.com

Meng Weng Wong is Founder and CTO of pobox.com. He is deeply familiar with many aspects of the email industry from outsourced email to forwarding and mailing lists. As the co-author of SPF, he is a strong proponent of the authentication / reputation / accreditation vision for a spam-free future.

Jianping Wu

Professor, Department of Computer Science, Tsinghua University

Director of CERNET

Jianping Wu is a full professor of Department of Computer Science, Tsinghua University from 1993. He is also the director of China Education and Research Network (CERNET) which is the largest academic network in China. His area of specialization includes high speed computer network, Internet and its applications, network protocol testing and formal method. More than 200 of his papers have been published in the academic journals and proceedings of international conferences. Prof Wu is widely respected as a pioneer of the China Internet. Prof. Wu is leading a large research group including 12 faculty members and more than 30 graduate students.
The major research areas of his group include next generation Internet architecture, active network architecture, terabit IP router, network

management and security, congestion control, multicast congestion control and multicast routing, QoS management and QoS routing, formal methods and protocol testing.

Keisuke Uehara

Assistant Professor, Graduate School of Media and Governance

Keio University

2003
M.A. and Ph. D., School of Media and Governance
Keio University

Assistant Professor, Graduate School of Media and Governance
Keio University

Uehara has focused his research on Internet mobile communications.
He is a Director of Advanced Positioning Societal Base Research Forum (APSBRF) and Chair of the Internet ITS Consortium.

Gaurab Raj Upadhaya

Internet Economics Analyst

Packet Clearing House

Gaurab Raj Upadhaya, is currently employed as Internet Economics Analyst / Staff Engineer, at Packet Clearing House (www.pch.net), a research non-profit based in Berkeley, California. He works mostly on Internet backbone operations, analysing peering relationships between operators and roles of Internet Exchange Points in different parts of Asia. He is also part of the peering group at PCH. PCH peers at about 30 Internet Exchanges worldwide. Much of the work involves training ISPs in different countries about best practices on network operations and management. He also runs the PCH INOC-DBA (www.pch.net/inoc-dba) hotline phone system for service providers. He initiated the Nepal Internet Exchange (npIX) and currently serves as its voluntary CEO.

Since 2002, Gaurab has taught Open Source Infrastructure for ISPs course at APRICOT and other places including SANOG and AfNOG. He initiated the Network Management Workshop in APRICOT 2003. In the past he has served as a National UN Volunteer, and as as system and network administrator for United Mission to Nepal (www.umn.org.np). He has been using Linux and open source software since 1996.

He is Cisco Certified Network Associate (CCNA). He currently chairs SANOG (www.sanog.org), and is the vice-chair of Asia Pacific Internet Association (www.apia.org), and Management Committee member for Asia Pacific Regional Internet Conference on Operational Technologies (APRICOT). (www.apricot.net)

Zahri Yunos

NISER (National ICT Security & Emergency Response Centre) , Malaysia

Zahri Yunos is currently the Strategic Planning Manager of NISER. His position shoulders him the responsibility to manage and coordinate NISER?s strategic initiatives. Prior to joining NISER, Zahri had served the government of Malaysia as well as other commercial organisations. Zahri holds a Master?s degree in Electrical Engineering from Universiti Teknologi Malaysia, Malaysia and a Bachelor?s degree in Computer Science from Fairleigh Dickinson University, New Jersey, United States.
Zahri had presented several papers during AusCERT 2004 Conference in Gold Coast, Australia and Customer Contact World 2004, Business Continuity Management Track in Kuala Lumpur, Malaysia.