

APRICOT 2000 Schedule

Mon 28-Feb-00 Start Time: 9:30 End Time: 17:30

Trk Tutorial Instructor Company Email

1 Effective IP Address Management: Asia-Pacific Policies and Procedures Anne Lord APNIC anne@apnic.net

Tutorial Desc: This tutorial is an important presentation of the current APNIC policies, a guide to completing APNIC request forms successfully, and a discussion of important issues, such as preparing a network plan.

Who should attend?

The target audience is technical personnel located in the Asia and Pacific Region, who have responsibility for allocating and/or assigning IP addresses. For example, hostmaster employees of network information centres or ISP's, network planners, designers and network installation engineers.

Description:

- Overview of Internet administrative structure and related AP organisations
- Historical context and goals of the Internet Registry System (IPv4 address depletion, CIDR)
- APNIC policies for the management of IPv4 address space Member and APNIC responsibilities
- Guidelines for designing an addressing plan
- Use of AS numbers and introduction to routing etiquette
- Registration and the APNIC database.

Presentation Title	Name	Company	Email
Additional Instructor	Champika Wijayatunga	APNIC	champika@apnic.net
Desc:			

1 Effective IP Address Management: Asia-Pacific Policies and Procedures Anne Lord APNIC anne@apnic.net

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Presentation Title	Name	Company	Email
Additional Instructor	Champika Wijayatunga	APNIC	champika@apnic.net
Desc:			

2 Introduction to Network Management and ISP Fundamentals Miguel A.L. Parz Iphil Communications Network, Inc map@iphil.net

Tutorial Desc: Network Layer:
Network Design
Routing (Cisco IOS, gated)
IP Filtering

Server/Application Layer:
Unix system design (Red Hat Linux, FreeBSD, OpenBSD)
DNS (ISC bind)
SMTP (sendmail, Postfix)
POP and IMAP (Washington U imapd, QPopper)
Web serving (Apache, mod_perl)
Web caching (squid, transparent caching with Cisco and IP port redirection)
Authentication (RADIUS)
Monitoring tools (Nocol, MRTG)

Security:
Preventing denial of service
Preventing theft of service (spam)

Programming:
Practical Perl for System Administration

Presentation Title	Name	Company	Email
Additional Instructor	Butch Anton	iPass Inc.	butch@ipass.com
Desc: Global Roaming			

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Wednesday, February 23, 2000

Up to 4 speakers per Tech Conf Session Available

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Mon 28-Feb-00 Start Time: 9:30 End Time: 17:30

Trk	Tutorial	Instructor	Company	Email
3	Hot Topics in Future Networks, Multi Protocol Label Switching (MPLS), Quality of Service, and Voice over IP Tutorial Desc:	Srihari Ramachandra	Cisco	rsrihari@cisco.com
4	High Speed Networking Tech: ATM, Gigabit Ethernet, Switch Routers and Optical Dense Wave Division Multiplexing (DWDM) Tutorial Desc:	Jeff Wabik	Lucent	jwabik@lucent.com
5	Broadband Access Technologies: ISDN, xDSL, Cable Modem and Broadband Wireless Tutorial Desc: As service providers are faced with many different types of "last mile" access to the network, several solutions have emerged within the space commonly known as Broadband RAS (BRAS). Focus of the presentation will be at the IP aggregation layer of the network where the services are applied. New service offerings, scalability, and next generation models of network deployment will be discussed.	Scott Stevens	Unisphere Solutions, Inc	sstevens@unispheresolutions.com
6	Traffic Engineering with Multi Protocol Label Switching (MPLS) Tutorial Desc: A full-day tutorial that discusses and demonstrates the interaction between MPLS and the traditional IP routing protocols. The tutorial begins by examining the general requirements for traffic engineering and then presents how specific features of MPLS address these requirements. The tutorial then proceeds to address how advanced features of MPLS work in conjunction with BGP and the IGP (IS-IS or OSPF) to control network traffic. During the tutorial, the presenter will augment the lecture material by demonstrating various MPLS features including the signaling of LSPs with RSVP, mapping routes to LSPs, configuring LSPs for transit and local traffic, and enabling advanced traffic protection features. Traffic engineering introduction - Metric-based traffic engineering - ATM-based overlay network traffic engineering - Base requirements for traffic engineering - MPLS fundamentals - JUNOS software traffic engineering features Signaling LSPs with RSVP - RSVP path setup - RSVP objects - Extensions to RSVP Constraint-based traffic engineering - Extensions to IS-IS and OSPF - Traffic Engineering Database - Path selection with and without constraints - Strict and loose routing - Administrative groups - Preemption Traffic protection - Secondary LSPs - Hot-standby LSPs - Fast Reroute Applications and advanced features - Circuit Cross Connect - IGP Shortcuts - Configuring for transit traffic - Configuring for internal destinations Prerequisites: Basic knowledge of OSPF, IS-IS, BGP and Interdomain routing	Dan Lockwood	Juniper Networks	lockwood@juniper.net

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APRICOT 2000 Schedule

Mon 28-Feb-00 Start Time: 9:30 End Time: 17:30

Trk	Tutorial	Instructor	Company	Email
7	VoIP Part I : Introduction & Standards	Anthony Kirkham	Cisco	tkirkham@cisco.com

Tutorial Desc: VoIP introduction:
 Intro to telephony
 Compression standards
 Design Considerations
 Packet networking considerations
 QoS considerations
 H.323 Fundamentals
 Gatekeeper, Gateway introduction
 VoIP for Enterprises versus VoIP for SPs
 VoIP/FR and VoIP/ATM considerations

VoIP standards:
 H.323, MGCP, Megaco, SigTrans

Presentation Title	Name	Company	Email
Additional Instructor	Srinatha Beldona	Cisco	sbeldona@cisco.com
Desc:			

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APRICOT 2000 Schedule

Mon 28-Feb-00 Start Time: 18:30 End Time: 20:00

Trk BOF

Chair

Company

Email

1 iDNSO Formation BOF

Tan Tin Wee

**National
University of
Singapore iDNS
IPv6 project**

tinwee@pobox.org.sg

BOF Desc:

Presentation Title

Name

Company

Email

TBD

TBD

Desc:

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APRICOT 2000 Schedule

Tue 29-Feb-00 Start Time: 9:30 End Time: 17:30

Trk Tutorial	Instructor	Company	Email
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8 Optical Networking Tutorial Desc:	Wade Rubinstein	Sycamore Networks	Wade.Rubinstein@sycamorenet.com
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9 Virtual Private Networks Tutorial Desc:	Dean Hamilton	Cosine Communications	dhamilton@cosinecom.com
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The use of the Internet and the Web for e-commerce is a major impetus of the development of VPNs. This could be why there are over 60 vendors on the market today offering some type of VPN solution. However, the number and variety of VPN implementations has generated significant confusion about what constitutes a VPN and how to implement one. This session defines the various types of VPNs and the enabling technologies such as IPSec L2TP, PKI and MPLS. The differences between an enterprise constructing its own VPN or outsourcing the project to Service Providers in the form of a managed service will also be examined. Finally, the speaker will explore the evolution VPNs and the opportunities for profitable new VPN services such as IPSec VPNs, Frame over IP, Secure over MPLS and Dial VPNs.

This session will specifically highlight:

- What are VPNs?
- VPN Evolution
- Next Generation IP VPN Characteristics
- IP VPN Enabling Technologies (IPSec, PKI, X.509, PPTP, L2TP, Firewalls, etc.)
- IP VPN Carrier Architectures
- Next Generation VPN Management
- Revenue Opportunities for VPN Carrier Service Applications

10 VoIP Part II: Network Design Considerations & Computer Telephony Integration Tutorial Desc:	Srinivasarao Mulugu	Cisco	smulugu@cisco.com
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Large Network Design:
 Dial Plans
 Gatekeepers
 Access Design considerations
 Backbone Design considerations
 VoIP Applications & Implementations:
 Settlement issues between providers,
 Open Settlement Protocol
 2-stage dial, single-stage dial
 Examples

Computer Telephony Integration :
 CTI introduction
 Protocols & Standards
 Implementation Example

Pre-requisites: VoIP Part 1 tutorial would be helpful.

Presentation Title	Name	Company	Email
Additional Instructor	Anthony Kirkham	Cisco	tkirkham@cisco.com
Desc:			

11 ISP System Administration Tutorial Desc:	Barbara Dijker	Brandenburg Consulting	dcrocker@brandenburg.com
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12 Scaling E-mail Infrastructure Tutorial Desc:	Dave Crocker	Brandenburg Consulting	dcrocker@brandenburg.com
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Internet mail has seen more than 25 years of continuous and useful service. That service needs to continue, but the Internet has grown much larger. Internet mail must improve its ability to handle the much larger number of users. However the more difficult challenge is to improve Internet mail to handle the much larger number of functions, especially for conducting business over the Internet. This tutorial will review established Internet mail technology, explore operational issues for email in the modern Internet, consider the use of email for collaboration and for marketing, and offer a pragmatic look at the future of "unified messaging".

Tutorial outline:

- Email Basics and Current Requirements
- Opt-in Marketing & Spam
- Unified Messaging and Future Requirements
- Messaging-based Group Collaboration
- Performance, Reliability and Security
- Email-based Commerce

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Tue 29-Feb-00 Start Time: 9:30 End Time: 17:30

Trk Tutorial	Instructor	Company	Email
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13 Information and Network Security

Barbara Fraser

Cisco

byfraser@cisco.com

Tutorial Desc: Today's network infrastructures are large and complex. They support Internet service provision, electronic commerce, and corporate business infrastructures. In order to ensure that services will be available when needed, and that information is protected appropriately, organizations must apply sound security techniques when building and operating their networks. The recent flurry of massive distributed denial of service attacks underscores the need for everyone in the Internet community to understand the role they play in securing this global infrastructure. This one-day overview is designed for those who would like to improve their knowledge of security issues, techniques, and trends related to the confidentiality, integrity, and availability of information assets on an organization's computer systems and networks. This course provides participants with a foundation for applying best practices to the information security needs of an organization. Current, relevant topics that affect security implementations regardless of the organization's computer operating system are covered. The course uses lecture, discussion, and exercises to help participants to improve their understanding of the problem of securing information in the dynamic environment that global connectivity has created.

Course Topics

- * Information security concepts
- * Current and continuing information security threats, vulnerabilities, and trends
- * Core strategies and tactics for secure system and network administration
- * The role and importance of planning in protecting information assets
- * Information security policies
- * Preparing, detecting, and responding to intrusions
- * Making and sustaining the case for information security to stakeholders

Presentation Title	Name	Company	Email
Co-Instructor	Lawrance Rogers	CERT	lrr@cert.org
Desc:			

14 IPv6, the New Version of the Internet Protocol

Steve Deering

Cisco

deering@cisco.com

(Note: 1/2 day only 9:30am - 12:30pm)

***APNIC is sponsoring this Tutorial**

Tutorial Desc: A new version of the Internet's core protocol, IP, has been developed by the Internet Engineering Task Force (IETF) and is now in the early stages of deployment and standardization. The new IP, known as IP version 6 or IPv6, is designed to meet the scaling requirements imposed by the explosive growth of the Internet, and to meet the demand for greater functionality at the internet layer, including strong security, automated configuration, and support for multimedia traffic. In this tutorial, the lead designer of IPv6 will present a detailed walkthrough of the protocol, describing what it is, why it is, and what role it is expected to play in the evolution of the Internet.

Syllabus

- why a new IP?
- IPv6 addressing and routing architecture: unicast, multicast, support for mobile hosts, dynamic selection of service providers, address allocation and administration.
- extensibility: extension headers and options.
- IPv6 security: source authentication, data integrity and confidentiality.
- support for real-time traffic flows and non-default qualities of service.
- autoconfiguration and reconfiguration of IPv6 nodes ("plug-and-play").
- the effects of IPv6 on higher-layer protocols and APIs.
- interoperation with, and transition from, the current version of IP.

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Tue 29-Feb-00 Start Time: 14:00 End Time: 17:30

Trk	Tutorial	Instructor	Company	Email
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15	RPSL and Routing Policy (1/2 day only 2pm to 5:30pm) *APNIC is sponsoring this Tutorial	Cengiz Alaettinoglu	Information Sciences Institute, University of Southern Calif.	cengiz@isi.edu
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Tutorial Desc: This tutorial introduces the Internet Routing Registry (IRR) and the Routing Policy Specification Language (RPSL). We explain how to register and query routing policy objects in the IRR.

After an introduction to routing policies, we discuss RPSL, the new IETF-proposed standard language for specifying Internet routing policies. RPSL is currently being deployed by IRR participants and is replacing RIPE-181, the current IRR routing policy specification language.

RPSL provides substantial extensions to RIPE-181, making it possible to specify a much richer set of routing policies in a more concise manner. In addition, we present and demonstrate several IRR policy analysis tools, including RtConfig to configure routers, and roe to reconcile route objects with actual routes in the Internet.

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Tue	29-Feb-00	Start Time:	18:30	End Time:	20:00
Trk	<u>Social Event</u>	Chair		Company	Email

1 Opening Ceremony and Reception

TBD

Social Event Desc:

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Tue 29-Feb-00 Start Time: 19:30 End Time: 21:00

Trk BOF

Chair

Company

Email

1 DNS Security (DNSSEC) BOF

Bill Manning

ISI

bmannings@isi.edu

BOF Desc:

Presentation Title	Name	Company	Email
AVAILABLE	AVAILABLE		
Desc:			

2 BGP BOF

Philip Smith

Cisco

pfs@cisco.com

BOF Desc: This BoF aims to give the audience some examples of how to configure BGP to implement/support particular connectivity scenarios. Short presentations will basically describe the situation, and then give examples of the necessary BGP configuration to support this situation. Please come with paper, and pen, and your questions!

Some Topics:

- when do I need to use BGP?
- how and when do I apply for an AS number for my customer?
- how do I configure BGP to dualhome between my two upstream ISPs?
- how do I configure BGP to dualhome to two sites of my upstream ISP?
- how do I configure BGP when I have multiple exits from my network?
- how do I run BGP over a uni-directional satellite link?
- how do I loadshare over my two upstreams' networks to reach the Internet?
- how do I configure my BGP peering properly/safely?
- what is this Internet Routing Registry thing people keep talking about?

Presentation Title	Name	Company	Email
AVAILABLE	AVAILABLE		
Desc:			

3 Experiences with network management tools BOF

David O'Leary

Juniper Networks

doleary@juniper.net

BOF Desc: An open discussion concerning commercial and public domain/shareware tools that are available. Who is using what tools, what works, what doesn't.

Presentation Title	Name	Company	Email
AVAILABLE	AVAILABLE		
Desc:			

4 E-Commerce & Cyberlaw - Some Legal Perspectives

Pavan Duggal

Cyberlaws.net

pduggal@nde.vsnl.net.in

BOF Desc: This BOF shall aim to raise some important legal issues relating to E-Commerce as they exist today and the challenges they throw for Governments throughout the world. The said BOF shall also aim to present a peep into some of the latest cyberlaw developments in the field of E-Commerce. I shall also endeavour to prepare a presentation for the said BOF.

Presentation Title	Name	Company	Email
AVAILABLE	AVAILABLE		
Desc:			

5 AP*nextgeneration

Kilnam Chon

chon@cosmos.kaist.ac.kr

BOF Desc:

6 Third Generation Mobile Phones (G3) and mobile Internet Access BOF

Takashi Arano

Arano

BOF Desc: What is G3 mobile phone
Real example of mobile Internet
IPv6, Mobile IP and G3
Address allocation policy for G3

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APRICOT 2000 Schedule

Wed 01-Mar-00 Start Time: 9:30 End Time: 10:30

Trk Plenary Chair Company Email

1 Opening Plenary Session with Keynotes

TBD

Plenary Desc:

Presentation Title	Name	Company	Email
TBD	John Mulligan	AT&T Asia Pacific Group	jmulligan@attmail.com
Desc:			
TBD	Dr Sh Kyong	ETRI	
Desc:			

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APRICOT 2000 Schedule

Wed 01-Mar-00 Start Time: 11:00 End Time: 12:30

Trk Session Chair Company Email

1 APNIC Special Interest Group on Routing Issues Philip Smith Cisco pfs@cisco.com

Session Desc: This special interest group will investigate some of the hot topics regarding Internet routing and stability of the Internet today. These will include Routing Registry use, Internet stability, and the state of the Internet routing table as seen in various places and times around the world. The audience will have the opportunity to discuss these topics and other issues which may affect the stability or future growth of the Internet.

Presentation Title	Name	Company	Email
Routing Policy Specification Language (RPSL) in Operations	Mark Prior	Connect.Com.Au	mrp@connect.com.au
Desc: Brief overview of using RPSL to configure routers in an operational environment.			
The Problem with BGP Convergence?	Abha Ahuja	InterNap / Merit	ahuja@umich.edu
Desc: This talk presents our research on Internet inter-domain route convergence. We present data collected from two years of experiments in injecting BGP faults into default-free Internet routing. Analysis of the data showed several unexpected Internet routing behaviors including substantially slower convergence latencies than previously believed.			
Routing reports and AP analysis	Philip Smith	Cisco	pfs@cisco.com
Desc:			
The RIPE-NCC Routing Information Services	TBD	RIPE NCC	
Desc:			
IRR Scalability	Kuniaki Kondo		
Desc:			
ARIN Traffic Measurement Group report	Richard Jimmerson	ARIN	richardj@arin.net
Desc:			

2 Delivering Broadband Internet AVAILABLE

Session Desc:

Presentation Title	Name	Company	Email
Alternative Last Mile Connectivity (xDSL, Wireless, Cable)	Calvin Cho	Lucent	ccho@lucent.com
Desc: -Internet Trend -Broadband Internet Access Applications -Broadband Internet Access Solutions - Marketplace Today - Addressable Market - Achievable Scenarios			
Delivering Broadband Services	Andrew Coward	Unisphere Solutions, Inc.	acoward@unispheresolutions.com
Desc:			
Experiences with Network Unbundling of xDSL	Jonghwa Lee	KISDI	
Desc:			
Broadband technologies and strategies for ISP survival in the immediate future	Jim B. Southworth	Concentric Network Corp	JSouthwo@Concentric.net
Desc: Includes xDSL, Wireless, 2 way Satellite and even "Geo-synchronous Aircraft"			

3 Multilingual DNS Tan Tin Wee National University of Singapore iDNS IPv6 project tinwee@pobox.org.sg

Session Desc:

Presentation Title	Name	Company	Email
TBD	TBD		
Desc:			

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APRICOT 2000 Schedule

Wed 01-Mar-00 Start Time: 11:00 End Time: 12:30

Trk	Session	Chair	Company	Email
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4	Traffic Engineering and Multi Protocol Label Switching (MPLS)	Dave O'Leary	Juniper Networks	doleary@juniper.net
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Session Desc: The speakers for this session provide an overview of topics relating to traffic engineering, particularly the emerging series of protocols called "MPLS", or Multiprotocol Label Switching. Traffic engineering is broadly defined here as techniques for managing and controlling the flow of packets through a network, typically to improve efficiency and network performance

Presentation Title	Name	Company	Email
Multiprotocol Lambda Switching: MPLS meets Optical Switching	Mark Williams	Nortel	marwilli@nortelnetworks.com
<p>Desc: Multiprotocol Label Switching holds the promise of improving the performance, reliability and service quality in packet-switched networks by bringing many of the advantages of ATM networks to an arbitrary switched link layer while avoiding many of their disadvantages. MPLS achieves this by taking advantage of existing routing protocols to set up virtual label-switched paths across a set of label switching routers (LSRs) to identified destinations, thus requiring a packet's layer 3 header to be interpreted only at the ingress and egress of an MPLS switching domain. This not only reduces the packet processing overhead but allows for multiple paths to be established for a single destination, allowing support for path protection, segregation of traffic by class of service and traffic engineering.</p> <p>Multiprotocol Lambda Switching extends this paradigm into the optical domain by using an extended MPLS (or MPLS-like) control plane to control optical cross-connects. In effect instead of "route once switch many" we then have "electrical once, optical many" or "switch once, then transmit". Examination of this technique shows that it can be used to create an optical packet core network capable of delivering virtual services at OSI layers 1, 2 or 3 without the need for strict timing relationships across the transmission core.</p>			
MPLS for Traffic Engineering	Srihari Ramachandra	Cisco	rsrihari@cisco.com
Desc:			
Direction of Multicast and applicability of MPLS TE in Multicast	Dorian Kim	Verio, Inc	dorian@blackrose.org
Desc:			

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APRICOT 2000 Schedule

Wed 01-Mar-00 Start Time: 14:00 End Time: 15:30

Trk Session Chair Company Email

1 APNIC Special Interest Group on IPv6 Akira Kato WIDE kato@wide.ad.jp

Session Desc: This special interest group will look at a number of practical issues surrounding the development and deployment of IPv6.

Presentation Title	Name	Company	Email
IPv6 Protocol Update	Steve Deering	Cisco	deering@cisco.com
Desc: A report on recent developments and current status of IPv6, by the co-chair of the IETF's IPv6 Working Group.			
IPv6 implementations/projects	Dr. Kazu Yamamoto	IJJ	kazu@ijjlab.net
Desc:			
IPv6 Activities in WIDE	Akira Kato	WIDE	kato@wide.ad.jp
Desc:			
Status of IPv6 allocations	Fabrina Hossain	APNIC	fabrina@apnic.net
Desc: Status of IPv6 allocations in the Asia Pacific Region			
IPv6 Activities in China	Xing Li		
Desc:			

2 Wireless Local Loop Barbara Dijker barb@netrack.net

Session Desc:

Presentation Title	Name	Company	Email
IP Services for Wireless Networks	Karan Ponnudurai	Narus, Inc	KaranP@narus.com
Desc: Wireless service providers are in a prime position to take advantage of new and advanced service offerings. However, because there has been no comprehensive, reliable way to identify and bill in real time for the different kinds of traffic on their networks, there has been little incentive to introduce these services. Now there are infrastructure tools that allow wireless service providers to easily see in real time what kind of traffic crosses their network, and charge users according to the differing values of services provided. These tools will enable wireless service providers to roll out new services, stay competitive, and reap sustainable revenue.			
Unifying Wireless Networks and the Internet	Wally Ho	Nortel Networks	wallyho@nortelnetworks.com
Desc: Wireless Internet brings together two of the greatest advancements in telecommunications: the conspicuous value of mobility and the rich multimedia content of the Internet. Nortel Networks is delivering Wireless Internet solutions with the reliability and quality you have come to expect from all of our voice and data network solutions.			
Building the Business Infrastructure for Delivering Wireless Data and Internet Services	Stephen Cheng	Portal	Stephen@portal.com
Desc: Today's wireless and Internet technologies and companies are rapidly converging to enable a new class of mobile Internet technologies that combine the richness of Web content with the mobility of wireless devices. As a result, wireless data and Internet service providers are now able to take full advantage of these two growing business opportunities to deliver new, value-added services to their customers. As the wireless Internet industry matures, we will see many changes occur to carriers' business and billing models. The major shift will be from using simple, flat-rate monthly billing models to more sophisticated IP-oriented billing strategies that include price-tiering, cross-product promotions, loyalty programs, content revenues, and others.			
This presentation looks at the emerging trends in wireless data and Internet applications and services and the impact of those trends on Internet business models. This presentation then goes on to examine the critical technology requirements for successfully delivering wireless data and Internet services, and discusses how Portal Software, Inc. delivers the industry's most complete and effective customer management and billing solution for providers of wireless Internet applications and services.			
Attendees will learn:			
<ul style="list-style-type: none"> How next-generation customer management and billing services support wireless data and Internet services How a comprehensive real-time system can become the ultimate competitive weapon How to use "smart rating and billing" features to take advantage of emerging new business opportunities and rate, track, and analyze customer usage and billing as it happens 			
Building an Unified User Management Infrastructure for a Mobile/Internet Operator on the Linux Platform	M K Fung	SUNDAY (Mandarin Communications Ltd)	mk.fung@corp.Sunday.com
Desc:			

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Wed 01-Mar-00 Start Time: 14:00 End Time: 15:30

Trk	Session	Chair	Company	Email
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3	Applicaton Service Providers (ASP) Opportunities	Shaun Page	Lucent	rajindersingh@lucent.com
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Session Desc:

Presentation Title	Name	Company	Email
Next generation networks and services	Hussam (Sam) Ramadan	Lucent	ramadan@lucent.com
<p>Desc: In today's information age, just about the only thing you can be sure of is rapid, constant change. Demand for new services, deregulation, and the convergence of voice and data networks are shaping the future of the information age in the 21st century. Consumers as well as corporate demands have dramatically increased for new applications and services. E-commerce, unified messaging, collaboration, and customer relationship management are among applications integrated and hosted by a service provider. For service providers developing next-generation networks and services, the ability to keep pace with that change means the difference between success and failure. Traditional connectivity service offerings will no longer suffice to remain competitive and profitable in the new information age.</p> <p>In this presentation the speaker will explore the forces driving the pace of change, and steps service providers must take to stay competitive. The speaker will also discuss the evolution and capabilities of next generation networks in providing hosted services such as e-commerce.</p> <p>Attendees will learn about</p> <ul style="list-style-type: none"> -Changes in the rapidly changing telecommunications world -Evolving next-generation networks -Next generation services 			
Moving the Intelligent Network applications into the Internet	Vincent Wong	Lucent Technologies	vwong@lucent.com
<p>Desc: Application service providers include a new generation of companies that manage high-availability data centers that deliver application-hosting services. In the ASP value chain, the ASPs partner with the content or application suppliers and deliver the services to the business-to-business and business-to-customer through the Network Service Providers. The business model is based on monthly recurring charges, where each service provider in the chain will realize its share of revenues predictably as their customer base grows.</p> <p>While it looks promising when the application portals are coupled with Internet for access and delivery, it also creates unprecedented changes to the infrastructure of the NSPs towards the explosion of bandwidth and packet based services demand. This presentation will examine some of the problems of these changes and how Intelligent Networks will serve as an enabling technology to deliver the Next Generation network services and killer applications for the value chain, opening up new revenue streams beyond the conventional software delivery business model.</p>			
The Economics of a Profitable Enhanced Messaging Service	Tim Lambie	NetCentric Corporation	tlambie@netcentric.com
<p>Desc: Despite the rise in the use of email, fax communication continues to grow at a remarkable rate of nearly 30 percent compounded annually. The average fax machine generates approximately \$8,750 per year in usage charges. The average Fortune 500 corporation spends approximately 40 percent of its annual telecommunications bill on fax transmission. Fax transmissions generate a global annual telephone bill in excess of \$100 billion.</p> <p>In this presentation, Mr. Lambie will discuss the advantages of Internet faxing over PSTN faxing, and the business case for companies and NSPs to develop the Internet as the next generation telephony backbone for fax communications.</p> <p>Attendees will learn:</p> <ul style="list-style-type: none"> * Internet fax operation options * How FoIP works with desktops, fax machines, LAN fax servers, and production fax applications * The scope of service offerings for Internet fax-point-to-point, broadcast, inbox, e-fax * Service provider economics of fax as an Internet telephony service 			

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APRICOT 2000 Schedule

Wed 01-Mar-00 Start Time: 14:00 End Time: 15:30

Trk	Session	Chair	Company	Email
4	Streaming and Multicast	Yongtae Shin	Yoongsil University	shin@computing.soongsil.ac.kr

Session Desc:

Presentation Title	Name	Company	Email
Wormhole Caching and Multicasting for Internet Content Distribution Desc: Internet expansion has created a "bigbang" problem for content users and content providers. Based on a wormhole concept in the Web space, IDS (Internet Distribution System) provides a comprehensive solution for linking both ends of the network. An HTTP Push protocol, a reliable IP multicast service and a Content Management Framework will be discussed. Comparison with others technologies will be discussed also.	Philip Chen	OrbLynx Inc	pchen@orblynx.com
Implementation of IP Multicast Streaming via Satellite Network Desc: <ul style="list-style-type: none"> - IP Based Multicast Streaming over Satellite : Concept - Multimedia Satellite System Configuration - Global Standard : DVB/MPEG2 - Client and Server Applications for Streaming - Scrambling of Streams - Scheduler - Case Study : SpeedCast Satellite ISP <p>Satellite can be the optimum carrier for IP based multicast stream. Multicast streaming service was basically designed to serve point to multi-point receiver site, but standard Internet protocol is designed mainly to support point to point communication protocol.</p> <p>IP Stream can be generated from stream server applications such as Netshow Server. The IP-DVB Gateway has a function to transform this IP packet into standard DVB/MPEG2 stream. Multiplexer combine this standard DVB/MPEG2 stream with any other standard video or audio stream and transfer to satellite uplink facility.</p> <p>Streams can be originated from Netshow Servers, Real Audio and Video Servers, Silicon Graphics Streaming Tools etc. The only requirement is that the streaming tools use the IP protocol for the transport of their data.</p> <p>Streams can be sent out in Free to Air (FTA) Mode or in scrambled mode. In FTA mode streams are receivable on any DVB compliant receiver card. In scrambled mode the broadcast can be specifically addressed to those receivers with certain access rights. Scrambling of streams can be done at two different layers; 1) IP Packet Layer, 2) DVB Layer. The software scrambling system on IP packet layer have more precise control over the multimedia data delivery and it can also be highly flexible and easy to implement to many standard receivers in the market.</p> <p>DVB scrambling mechanisms were originally designed with TV broadcasting in mind can be used for the scrambling of multimedia streams. They are however not flexible enough for the scrambling of file transfers.</p>	David T Khim, Ph.D	Techsystem Limited	khim.david@techsystem.net
Native Multicast and Caching in a Global Content and Distribution System Desc: The name of the game in global content distribution is delivering broadband content at the edges of the network as quickly and reliably as possible. Two popular technologies for accomplishing this task are native multicasting and caching. Using Teleglobe's global Internet backbone network as an example, this tutorial will discuss the implementation of native multicast and caching technologies for global content distribution. Highlights will include: <ul style="list-style-type: none"> • The building blocks of a global content distribution network: key assets • Satellite backbone access technologies • Multiprotocol Label Switching (MPLS) • Case Study: International Research and Education Networks • Advanced nodal architecture • Implementing Native Multicast • Differentiated Service Levels: CoS, QoS • Policy Routing • IPv6 • Colocation services for content providers • Transparent Caching • Proxy Caching • In-Depth Look: Multicast Caching and Replication System 	Brian Dickson	Teleglobe Communications Corp	bdickson@teleglobe.com

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APRICOT 2000 Schedule

Wed 01-Mar-00 Start Time: 16:00 End Time: 17:30

Trk Session Chair Company Email

1 APNIC Special Interest Group on PGP & the RIPE database Joao Damas RIPE NCC joao@ripe.net

Session Desc: Authentication and authorisation of address space registrations is fundamental to the operation of the Internet. This SIG session will take a look at security in the context of the APNIC database. In particular the use of PGP by the RIPE NCC is examined, together with issues of key management. An update on APNIC's certification authority project will also be presented and finally an overview of cryptography software regulations and availability in the AP region.

Presentation Title	Name	Company	Email
Authorisation (PGP) and the RIPE Database	TBD		
Desc:			
PGP Key Management	Bruce Campbell	APNIC	bc@apnic.net
Desc: Ensuring that your email is really from you, signing using PGP public key cryptography			
Update of the Certification Authority project (CA)	Paul Wilson	APNIC	pwilson@apnic.net
Desc: This session will report on APNIC's progress towards a proposed Certification Authority (CA) service. Through such a service, digital certificates may be issued by APNIC to its members and used to support encryption and digital signature, and may be used in future to validate Internet resource allocations and assignments.			
Overview of cryptography software regulations & availability in the AP region	Joao Damas	RIPE NCC	joao@ripe.net
Desc:			

2 High Performance Routing Jeff Wabik Lucent jwabik@lucent.com

Session Desc: This talk will cover the major considerations in the implementation of a high performance router, both as they are implemented in today's networks, and moving forward into the future. Specific areas discussed include interface management, switching performance, buffering, and software components including management features as they relate to running an service provider backbone network

Presentation Title	Name	Company	Email
High Performance Routers To Scale to Future Internet Backbone Requirements	Phillip Harris	Cisco	pharris@cisco.com
Desc: The session will look at the router technology required to provide both forwarding and services as traffic levels and available bandwidth grow. The discussion will focus on switching fabric and software pre-requisites, compared to current implementations and available technology. High performance media and design solutions will also be reviewed for both backbone and PoP networks.			
High Performance IP Backbone Routing and Management	David O'Leary	Juniper Networks	doleary@juniper.net
Desc:			

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APRICOT 2000 Schedule

Wed 01-Mar-00 Start Time: 16:00 End Time: 17:30

Trk	Session	Chair	Company	Email
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3 Applicaton Service Providers (ASP) Technologies Session Desc:	Jonathan Barry	Alteon WebSystems	jbarry@alteon.com
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Presentation Title	Name	Company	Email
The Service Ready Platform	Dorian Borin	Sun/Netscape Alliance	dorian.borin@sun.com
Desc: How and why to build a Service Ready Platform. A Service Ready Platform is a common platform and common strategies for deploying ecommerce services that enable faster, more effective deployment across the enterprise.			
ASP Services using Windows NT/2000	Soon Kon Kim	Microsoft	soonkonk@microsoft.com
Desc: - ASP trends and "Software as Service" - ASP network architecture and data center design - How Windows NT and Win 2000 can help ASP This will focus technical implementation details for ASP services using Windows NT and Windows 2000 server.			
Scaling Technology and Quality Assurance	Kenny Huang	Geotempo International Ltd	huangk@geotempo.com
Desc: Scalability is the most critical issue for the online services. How to designed online systems to remain stable while undergoing rapid growth in the number of online users, and the amount of network traffic ? The type of information system and environment decide how the system designers design and develop the testing plan. Also provide the quality assurance to ensure the services or product quality. The scaling technology will involve communication protocol, topology, system design and integration.			
Unified Messaging, EMail scaling, SPAM	Dave Crocker	Brandenburg Consulting	dcrocker@brandenburg.com
Desc: Internet mail has seen more than 25 years of continuous and useful service. It needs to add many new services. This presentation will explore operational issues for email in the modern Internet, consider the use of email for group collaboration and for customer marketing, and offer a pragmatic look at the future of "unified messaging".			

4 Panel on ICANN Update Session Desc: This 90-minute session will feature reports from Asia Pacific participants in ICANN and its associated Supporting Organisations, providing a comprehensive update on developments within ICANN from an Asia-Pacific perspective. Six presentations will be possible in the time available, of around 15 minutes each. Time permitting, questions will be fielded from the audience, however further questions and informal discussion will continue in the following BOF session.	Paul Wilson	APNIC	pwilson@apnic.net
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Presentation Title	Name	Company	Email
DNSO Constituencies Report[s]	Kilnam Chon		chon@cosmos.kaist.ac.kr
Desc:			
DNSO Constituencies Report[s]	Hirofumi Hotta	NTT	h.hotta@hco.ntt.co.jp
Desc:			
DNSO Constituencies Report[s]	Youn Jung Park	DNSO Name Council; APTLD	yjpark@aptld.org
Desc:			
Address Council Report	Takashi Arano	NTT OCN	arano@byd.ocn.ad.jp
Desc:			
Names Council Report	Youn Jung Park	DNSO Name Council; APTLD	yjpark@aptld.org
Desc:			
ICANN Board Report	Jun Murai	WIDE	jun@wide.ad.jp
Desc:			
Overview of ICANN - Why it matters to us.	Izumi Aizu	APIA	izumi@anr.org
Desc:			

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APRICOT 2000 Schedule

Wed 01-Mar-00 Start Time: 18:30 End Time: 20:00

Trk BOF Chair Company Email

1 State of the Internet in AP Countries BOF Philip Smith Cisco pfs@cisco.com

BOF Desc: This BoF aims to give the audience an overview of the state of the Internet in various countries in the Asia Pacific region. This could include the state of the marketplace, business versus private use, innovative services, bandwidth availability, new ISPs, any regulatory issues, etc. There will be opportunity for Q+A and other discussion during the meeting.

Presentation Title	Name	Company	Email
Panelists	Ming Zhou		
Desc:			
Panelists	Srinivas Mulugu		
Desc:			

2 ICANN BOF Paul Wilson APNIC pwilson@apnic.net

BOF Desc:

Presentation Title	Name	Company	Email
Panelists	Masanobu Katoh		mkatoh@wdc.fujitsu.com
Desc:			
Panelists	Richard Lindsay	interQ Incorporated	richard@interq.ad.jp
Desc:			
Panelists	Jianping Wu	CNNIC	jianping@sea.net.edu.cn
Desc:			
Panelists	Kilnam Chon		chon@cosmos.kaist.ac.kr
Desc:			
Panelists	Izumi Aizu	APIA	izumi@anr.org
Desc:			
Panelists	Hirofumi Hotta	NTT	h.hotta@hco.ntt.co.jp
Desc:			
Panelists	Youn Jung Park	DNSO Name Council; APTLD	yjpark@aptld.org
Desc:			
Panelists	Hyunje Park	Thrunet	hyunje@corp.thrunet.com
Desc:			
Panelists	Takashi Arano	NTT OCN	arano@byd.ocn.ad.jp
Desc:			
Panelists	Pindar Wong	VeriFi (H.K.)	pindar@hk.super.net
Desc:			
Panelists	Jun Murai	WIDE	jun@wide.ad.jp
Desc:			

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APRICOT 2000 Schedule

Wed 01-Mar-00 Start Time: 18:30 End Time: 20:00

Trk BOF

Chair

Company

Email

3 Building Local Exchanges: Economics, Politics, and Technical Details BOF

Bill Woodcock

Zocalo

woody@zocalo.net

BOF Desc: This session will be an interactive discussion of the political and technical issues surrounding the creation of local and regional Internet traffic exchanges, and more generally, the proliferation of peering within areas of the Internet that are currently marginalized by United States NAP-centric peering politics. We'll cover issues like site selection, how to form or find a neutral sponsoring body, calculation of critical mass and how to attract more peers/participants while keeping costs down, as well as technical issues like switch-fabric selection, routing, route-servers, security, and policy enforcement.

Presentation Title	Name	Company	Email
Panelists	Taeha Park	PSInet / Korea Internet Exchange	taeha@nuri.net
Desc:			
Panelists	Dorian Kim	Verio, Inc	dorian@blackrose.org
Desc:			
Panelists	Abha Ahuja	InterNap / Merit	ahuja@umich.edu
Desc:			
Panelists	Bill Manning	ISI	bmanning@isi.edu
Desc:			

4 PGP Key Signing BOF

Mathias Koerber

SingNet Pte Ltd

mathias@koerber.org

BOF Desc: As at most IETF meeting and other regular networking events with sufficient participants, we will be holding a PGP keysigning party during this year's APRICOT/APNG/APNIC Meeting in Seoul.

See <http://www.koerber.org/apricot2000/> for details and to pre-register your keys.

Presentation Title	Name	Company	Email
AVAILABLE	AVAILABLE		
Desc:			

5 Multilingual Names

Kilnam Chon

chon@cosmos.kaist.ac.kr

Session Desc:

6 Social Aspect of the Internet Development in Asia Pacific BOF

Yumi Ohashi

JPNIC/APIA

yumi@nic.ad.jp

BOF Desc: We would like to create a forum where people in Asia Pacific can find out from social aspects how the Internet has developed in the region.

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Wednesday, February 23, 2000

Up to 4 speakers per Tech Conf Session Available

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APRICOT 2000 Schedule

Thu 02-Mar-00 Start Time: 9:30 End Time: 10:30

Trk Plenary Chair Company Email

1 Plenary II with Keynote Speakers

TBD

Plenary Desc:

Presentation Title	Name	Company	Email
The Challenges and Solutions for Asia Pacific Internet between year 2000 to 2004	Dave Rand	AboveNet / Metropolitan Fiber	dlr@above.net
Desc:			
Where the Internet Is Going Next : New IP Network & Services Paradigm	Vab Goel	Norwest Venture Partners	vab@ieee.org
Desc:			

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APRICOT 2000 Schedule

Thu 02-Mar-00 Start Time: 11:00 End Time: 12:30

Trk Session Chair Company Email

1 APNIC Special Interest Group on Address Policy Takashi Arano NTT OCN arano@byd.ocn.ad.jp

Session Desc: This session will examine current issues in the management of address space in the Asia Pacific region.

Presentation Title	Name	Company	Email
IP allocation issues for large scale permanent connection consumer networks, such as CATV, ADSL and Wireless Internet Access	Yoshihiro Obata	Internet Reaserch Institute Inc.	obata@iri.co.jp
Desc:			
Proposal for simple assignment procedure of length /29 or longer prefix	Yoshiyuki Ezura		
Desc:			
Handling of Personal Information on the APNIC Database	Akinori Maemura		
Desc:			
A proposal for registry evaluation principles	Ruri Hiromi		
Desc:			
Implementation of allocations from Network 61	Shamsul Hamzah	APNIC	shamsul@apnic.net
Desc:	To promote the use of former class A address space.		

2 Intelligent Optical Networking: Evolving the Core for Enhanced Service Delivery Scott Larson Sycamore Networks Scott.Larson@sycamorenet.com

Session Desc: Driven by the continued growth in data traffic in the wide area and the emerging demand for high-speed, data-centric services, the technologies that once supported the backbone of the voice-centric public network are now undergoing critical evaluation and rapid change. Advances in optical networking technologies are playing a critical role in reshaping the network infrastructure and effecting quantum leaps in bandwidth capacity. This shift from bandwidth scarcity to abundance will dramatically change the approach carriers take when designing their networks and service portfolios. These advances will also ultimately redefine the role of the optical network from one of being a dumb transmission medium to a network of intelligent lightpaths used to more effectively distribute network capacity and support the creation of value-added high-speed services. This workshop addresses the way optical technologies are affecting change in carrier networks and the different approaches service providers are adopting to expand their business opportunities using optical networking. Topics will include:

- How optical networking is inverting traditional pricing models and creating a new market structure with new players and services
- The role of optical networking as a driver and beneficiary of this dramatic transition
- Opportunities and challenges in deploying optical networking for international cross-border networks
- Optical bandwidth management and network scaling for enhanced service delivery
- Emergence of new 'wave' service for high-speed data applications
- The challenges of achieving the all-optical network

Presentation Title	Name	Company	Email
Evolution to an All-Optical Networks	Matt Bross	Williams Communications	matt.bross@wilcom.com
Desc:			
New Optical Internet Infrastructure of Thrunet	Hyang-Ah Kim	Thrunet	hakim@corp.thrunet.com
Desc:	The advent of new Internet applications and the advance in high-speed access technologies such as cable mode, xDSL, and FTTx cause the growth of the Internet community and the traffic explosion in backbone networks. Thrunet built a new network infrastructure that scales to meet ever-growing requirements of bandwidth and features. The network backbone is optimized by transmitting gigabit ethernet frames natively over WDM paths that directly interconnect high performance routers.		
	This presentation introduces the optical Internet Infrastructure of Thrunet and describes the technical issues of the deployment. We present the approaches we've taken and discuss the reason behind our decisions.		
Extending service potential and profitability with optical networking	Sean Welch	Tenor Networks	
Desc:			
Modeling the Optical Network	Wade Rubinstein	Sycamore Networks	Wade.Rubinstein@sycamorenet.com
Desc:			

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Wednesday, February 23, 2000

Up to 4 speakers per Tech Conf Session Available

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APRICOT 2000 Schedule

Thu 02-Mar-00 Start Time: 11:00 End Time: 12:30

Trk Session Chair Company Email

3 Content Distribution Networks

AVAILABLE

Session Desc:

Presentation Title	Name	Company	Email
Content Distribution by DNS	Taku Morinobu	NTT Communications Global IP Business International Services	
Desc: As Web/Streaming/E-Commerce sites get larger and business scopes go beyond domestic to worldwide, the following 3 points are needed in operating content sites over the internet. These are more server reliability, more network reliability, and faster access for end users. Various content distribution technologies and services has emerged to meet these requiremetns and have been gaining success. There are several methods for content distribution services. To name a few, by placing cache servers over the internet, by using dynamic routing protocols to advertise several worldwide distributed sites with the same address, and by give the client the best ip address by DNS. In this program, short introductions of the previous 3 methods are discussed, and especially content distribution by DNS will be discussed in detail. The basic ideas using content distribution by DNS, actual labratory test results, and future concerns will be discussed about in this talk.			
Advanced Traffic Engineering for Optimizing CDN Infrastructure	Jonathan Barry	Alteon WebSystems	jbarry@alteon.com
Desc:			
TBD	Shin Taeksu	Inktomi	slee@inktomikorea.co.kr
Desc:			

4 Network Security

Barbara Fraser

Cisco

byfraser@cisco.com

Session Desc: Today's network infrastructures are increasingly under attack. This panel of experts will discuss the nature of attacks we are seeing today along with policies, tools, and techniques that are needed to address them.

Presentation Title	Name	Company	Email
Current Intruder Trends	Lawrance Rogers	CERT	lrr@cert.org
Desc:			
Network Security	Barbara Fraser	Cisco	byfraser@cisco.com
Desc:			
Global, secure corporate intranet access	Butch Anton	iPass Inc.	butch@ipass.com
Desc:			

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APRICOT 2000 Schedule

Thu 02-Mar-00 Start Time: 14:00 End Time: 15:30

Trk Session Chair Company Email

1 APNIC Address Policy Part II Takashi Arano NTT OCN arano@byd.ocn.ad.jp

Session Desc: Please refer to <http://www.apnic.net/amm2000/sigs.html> for more information.

Presentation Title	Name	Company	Email
Resource Leasing	Paul Wilson	APNIC	pwilson@apnic.net
Desc: The new APNIC policy document APNIC-076 (http://www.apnic.net/docs/add-manage-policy.html) contains provisions that resource allocations and assignments should be made only on a "lease" basis (section 6.6 and 7.2). A leasing system will provide an unambiguous mechanism for management of resource allocations and for meaningful development of resource management policies in the future. The leasing provisions of the new policy document have not yet been implemented by APNIC, as we feel more discussion is now needed on the exact terms and implementation of resource leasing.			
Should APNIC lower the size of the minimum practical allocation from a /19 to a /20?	Anne Lord	APNIC	anne@apnic.net
Desc: The size of the minimum allocation within the Asia Pacific region being reviewed in response to membership requests, which have mostly arisen in direct response to the ARIN decision to lower the size of their minimum allocation.			
Under what circumstances should APNIC make provider independent assignments?	Son Tran	APNIC	john@apnic.net
Desc: APNIC needs a clearer policy framework for allocating PI addresses.			
The Future of ISP Confederations	Anne Lord	APNIC	anne@apnic.net
Desc: In December 1998 the APNIC Executive Council supported the decision to suspend the formation of any new confederations.			
Should it be mandatory to use name-based web hosting where technically feasible?	Fabrina Hossain	APNIC	fabrina@apnic.net
Desc: The growth of the world wide web has led to the emergence of a number of web hosting companies whose main activity is to supply 'virtual web' or 'virtual domain' services to businesses and users using IP based hosting.			
Re-claiming (historically assigned) not-routed address space	James Speneley	MailTV Ltd	Jamess@dot.net.au
Desc:			

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APRICOT 2000 Schedule

Thu 02-Mar-00 Start Time: 14:00 End Time: 15:30

Trk	Session	Chair	Company	Email
2	Virtual Private Networks	Dave Crocker	Brandenburg Consulting	dcrocker@brandenburg.com

Session Desc:

Presentation Title	Name	Company	Email
Roaming and Secure Corporate Intranets via VPNs	Butch Anton	iPass Inc.	butch@ipass.com
Desc: How to combine global roaming with a VPN solution to provide global, secure corporate intranet access.			
Virtual Private Networks: Serving the Customer's Needs	Bruce Case	Lucent	bcase@lucent.com
Desc: Virtual Private Networks (VPNs) have been a topic of hot discussion for the last two or more years. However, it still remains difficult to make sense of all the marketecture and differing terminology bouncing around the industry today. One fact, however, remains clear: VPNs are made to serve customer's and network's needs, not about deploying expensive technology or the latest innovation. Therefore the trick to a successful VPN is understanding the role of technology as it relates to your customer's or network's needs. This talk explains VPNs from a services implementation point of view. It explains trends and technology as a means to an end - not as an end unto themselves. The pro's and con's of the following technologies with regard to serving customers is explored: <ul style="list-style-type: none"> * Security * Performance * Reliability * Network and Service Management Finally, a discussion of how to build vertical services on top of a VPN infrastructure is presented in light of the design decisions previously made.			
VPN Service Tech for Next Generation Networks	Bryan Monaghan	Cosine Communications	bmonagha@cosinecom.com
Desc: The advent of the Internet as the ubiquitous data transport backbone has been used by next generation Network Service Providers (NSPs) to create a new business model for broadband communications services. One of these services is IP-based VPNs. One problem has been that the variety of ways to implement VPN has created significant confusion about what are the key characteristics of a IP-based VPN and what distinguishes it from other VPN alternatives. This session describes the various VPN alternatives and surveys what are the enabling technologies for IP-based VPNs, concentrating on IPSec L2TP, PKI and MPLS. Additionally, the speaker will explore the probable evolution of VPNs and the opportunities for profitable new VPN services such as IPSec VPNs, Frame over IP, DSL service management, and Dial VPNs.			
In-Network IP VPNs - how much intelligence do you need?	Andrew Coward	Unisphere Solutions, Inc.	acoward@unispheresolutions.com
Desc: As Service Providers move to offer more and more IP services to their business customers, this presentation takes a look at VPN style services which can practically be offered within the network. How far can you go in "outsourcing" the intelligence of CPE devices in delivering secure connectivity between sites?			

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Thu 02-Mar-00 Start Time: 14:00 End Time: 15:30

Trk	Session	Chair	Company	Email
3	Network Game Technology	Manjai Lee	Ajou University	manjai@madang.ajou.ac.kr

Session Desc:

Presentation Title	Name	Company	Email
Modeling and Animation of Game Characters	Hyung Suk Ko	Seoul National University	ko@graphics.snu.ac.kr
Desc:			
Game Development on the Web Platform	Sung Tak Lee	Maritecom	daath@maritel.com
Desc:			
Network Game Strategy	Dong Hee Hong	Makkoya	hong@makkoya.com
Desc: Network game brings new marketing points into entertainment industry. Many market leading games utilize their networking power into mean to overcome competitiveness. Providing proper networking function has worked successfully. Number of network game model and their strategies will be demonstrated in the session.			
Complete Solutions of Online Game Technology	Sung Min Hong	Codinet	kingduke@codinet.com
Desc:			

4	Voice over IP Technology, Trends and Standards	Srinivasarao Mulugu	Cisco	smulugu@cisco.com
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Session Desc:

Presentation Title	Name	Company	Email
Voice over IP and Voice/Internet Infrastructure Integration	Chris Casey	Lucent Technologies	ccasey1@lucent.com
Desc: - A short history of Voice - A short history and variations of Packetised Voice - A short history of IP Telephony Technology - Marketplace Today - Addressable Market - Incumbent Carrier Integration - New Access Technologies - Standards - Achievable Scenarios			
IP Voice with Circuit Switched Network Quality	Tony Richardson	Level 3	Tony.Richardson@level3.com
Desc: IP telephony service using Softswitch with circuit switched voice quality over global broadband network.			
IP Fax - Technology and Trends	Tim Lambie	NetCentric Corporation	tlambie@netcentric.com
Desc: Although the Internet cannot today replace the telephone network with an equal user experience for voice communications, it can, and does, provide that capability for fax transmission. As fax transmission represents over \$30 of the \$90 billion in annual usage revenues collected by the worlds telephone companies, fax represents an enormous paradigm shift opportunity for network service providers available immediately.			
In this session Lambie will discuss the state of technology for fax transmission as an Internet telephony application. Attendees will learn about:			
* State of the art of fax as an Internet telephony application			
* Architecture of reliable, high throughput, fax messaging over the Internet			
* The technology for secure fax message transmission over the Internet			
* Standards and today's Internet fax technology			
* Enabling existing fax machines and desktop fax applications for Internet faxing			
* Integrating an Internet fax network into existing operations			
* Tracking and control of user expenditures on Internet fax transmission			

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APRICOT 2000 Schedule

Thu 02-Mar-00 Start Time: 16:00 End Time: 17:30

Trk Session Chair Company Email

1 APNIC Special Interest Group on Reverse DNS Mathias Koerber SingNet Pte Ltd mathias@koerber.org

Session Desc: APNIC has recently introduced new and improved procedures for requesting in-addr.arpa delegations based on the use of the domain object in the APNIC database. In addition, an overview of DNSSEC will be given, with particular attention paid to reverse DNS

Presentation Title	Name	Company	Email
APNIC reverse DNS in operation	Bruce Campbell	APNIC	bc@apnic.net
Desc: A brief coverage of how to create or change appropriate reverse delegations for IP ranges allocated by APNIC.			
DNS Sec Update	Mathias Koerber	SingNet Pte Ltd	mathias@koerber.org
Desc:			

2 Quality of Service Srinivasarao Mulugu Cisco smulugu@cisco.com

Session Desc:

Presentation Title	Name	Company	Email
Making QoS Profitable	Karan Ponnudurai	Narus, Inc	KaranP@narus.com
Desc: One does not have to be much of a seer to make the prediction that service providers will be implementing QoS over the next couple of years. The ability to implement and manage QoS has a significant value for service providers, allowing them to introduce and effectively reap profit from new and advanced services that require QoS. Service providers may know the quantity of customers that are using their network, but do not know the types of applications being used. Therefore, they are unable to effectively manage QoS over the network for each individual customer, or bill effectively for resources used. New advances in IP Billing mediation such as the creation of an Internet Business Infrastructure, make profits as well as delivery of QoS possible.			
End-to-End Multicast QoS: Between Dream and Reality	Dr. Dae Young Kim	Chungnam National University	dykim@ccl.chungnam.ac.kr
Desc: Providing quality-of-service in the Internet is a more than challenging task. Especially, providing it in end-to-end heterogeneous multicast environments is so difficult a technical hurdle that it may even turn out only to be a dream hardly to come true. Also it is to be questioned whether all the hustles and cost, both labor- and monetary-wise, is worthwhile, whether simple overprovisioning is the way to go and is the likely to survive. Both IntServ and DiffServ techniques are reviewed and their technical feasibilities are questioned. QoS issues in subnetworks like Ethernet are also discussed. The problem of end-to-end multicast QoS negotiation is presented and the reasons why the problem is deemed too difficult to make come true is discussed.			
QoS at the edge - technology to deliver Service Level Agreements	Scott Stevens	Unisphere Solutions, Inc	sstevens@unispheresolutions.com
Desc: Delivering IP Service Level Agreements is slowly becoming a technological reality. Aside from the basics of uptime and service commitment, combining protocols such as Diff-Serv and MPLS is providing the fundamentals for bandwidth guarantees. This presentation will look at how QoS service can be made end-to-end, whilst taking a reality check on what is truly available today!			

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APRICOT 2000 Schedule

Thu 02-Mar-00 Start Time: 16:00 End Time: 17:30

Trk	Session	Chair	Company	Email
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3 Peering and Internet Exchanges	William B Norton	Equinix	wbn@equinix.com
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Session Desc:

Presentation Title	Name	Company	Email
Creating Standard Expectations of Peers	Lauren Nowlin	Onyx Networks, Inc	ren@onyx.net
Desc:			
Peering in the USA	William B Norton	Equinix	wbn@equinix.com
<p>Desc: Internet Service Provider (ISP) peering has emerged as one of the most important and effective ways for ISPs to improve the efficiency of operation. Peering is defined as an interconnection business arrangement whereby each ISP directly exchanges traffic to and from each others' customers. ISPs seek peering relationships primarily for two reasons. First, peering decreases the cost and reliance on purchased Internet transit. As the single greatest operating expense, ISPs seek to minimize these telecommunications costs. Second, peering lowers inter-AS traffic latency. By avoiding a transit provider hop in between ISPs traffic between peering ISPs has lower latency.</p> <p>So how is peering done?</p> <p>This presentation details the ISP peering decision making process based on current practices in the U.S.</p> <p>Interviews with Internet Service Providers have highlighted three distinct decision phases of the peering process : Identification (Traffic Engineering Data Collection and Analysis), Contact & Qualification (Initial Peering Negotiation), and Implementation Discussion (Peering Methodology). The first phases identifies the who and the why, while the last phase focuses on the how. Details in each phase highlight techniques for successful entry into the U.S. peering markets.</p> <p>This research presentation is based upon interviews with the top tier ISPs and dozens of tier 2 ISPs. The findings were presented and substantially validated at the 17th North American Network Operators Group (NANOG) meeting BOF.</p>			
Japan Internet Exchange	Toshiki Ueda	JPIX	ueda@jpix.co.jp
<p>Desc: The Japan Internet Exchange (JPIX) has been providing IX service since November 1997 as a commercial IX point in Tokyo. The number of customers and the traffic have been growing steadily, and the current status shows 36 connections with 650Mbps at its peak.</p> <p>Japan's 24-hour Internet traffic pattern is very unique: the traffic peak exists at midnight and the bottom is at eight in the morning. This reflects the time period in which NTT's discount telephone rate plan is in effect.</p> <p>Regarding peering, agreements are made between customers. Subscription to JPIX does not assure any peering agreement to be made with other customers. Though JPIX does not have any responsibilities for the agreement, it facilitates peering by means of multi-lateral peering arrangements.</p> <p>As the first provision of the IX facilities is almost completely filled with the existing customer requirements, JPIX is going to introduce another switch in January 2000 to accomodate more customers. The initial switch has FDDI ports and the new switch will be equipped with Gigabit Ethernet and Fast Ethernet ports. In addition, JPIX is planning to introduce another IX in a different location in Tokyo.</p> <p>We foresee that many more major US ISPs will be connected to JPIX in the coming year in parallel with the launch of new, Japan-US cable networks in mid-2000. Interconnected JPIX switches in multiple locations will meet more diverse requirements, especially from ISPs that request more carrier-neutral environments.</p>			
Regional and Local Peering Points	Bill Woodcock	Zocalo	woody@zocalo.net
Desc:			

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APRICOT 2000 Schedule

Thu 02-Mar-00 Start Time: 16:00 End Time: 17:30

Trk	Session	Chair	Company	Email
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4	Happenings in DNS: Bind V9, IPv6 Bind and DNSSEC	Bill Manning	ISI	bmannings@isi.edu
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Session Desc: (There will also be a DNSSEC BOF for a more detailed discussion on that subject)

Presentation Title	Name	Company	Email
IPv6 DNS	Dr. Kazu Yamamoto	IJJ	kazu@ijjlab.net
Desc:			
DNSSEC	Bill Manning	ISI	bmannings@isi.edu
Desc:			
iDNS and Mainstream integration	James Seng	i-DNS.net International	jseng@pobox.org.sg
Desc: 1. What is iDNS 2. The issues revolving iDNS (IETF, ICANN, policy) 3. Problems faced with iDNS adoption			
ISC/Bind V9	Mark Andrews	ISC	
Desc:			

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APRICOT 2000 Schedule

Thu	02-Mar-00	Start Time:	18:30	End Time:	20:00
Trk	<u>Social Event</u>		Chair	Company	Email

1 Apricot Closing Social Event

TBD

Social Event Desc:

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