行政院及所屬各機關出國報告

（出國類別：其它－國際會議）

出席「亞太國際學術網路年會 APRICOT 2004 會議」報告

服務機關　　：教育部（電算中心）

出國人職稱：資料管理師

姓名：李長樹

出國地點　　：馬來西亞吉隆坡

出國期間　：93 年 2 月 22 日 至 27 日

報告日期　：93 年 5 月 20 日

報告名稱：
　　亞太國際學術網路二○○四年年會（APRICOT 2004 Conference）
主辦機關：
　　教育部
聯絡人／電話：
　　馬淑珍／23565907
出國人員／電話：
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出國類別：其它
出國地點：馬來西亞
出國期間：民國 93 年 2 月 22 日 - 民國 93 年 2 月 27 日
報告日期：民國 93 年 5 月 20 日
分類號／目：I8／資訊科學
關鍵詞：APRICOT2004

內容摘要：
APRICOT 會議的全稱是 Asia-Pacific Region Internet Conference of Technology，它是亞太區域最主要的網際網路年會，每年定期在亞太地區各國輪流舉行，此一會議不僅提供亞太區域各國網際網路社群交流的平台；也邀請世界各國網際網路發展的先驅到場分享他們寶貴的經驗，並且讓世界各國人士依據不同角度來提供亞太地區網路發展與合作的建議；同時討論過去一年重要的議題並介紹未來一年新興的技術及應用。今年的 APRICOT 會議包含了 APNIC、APCERT Security、MINC International Domain Names、VoIP、Internet Routing & Operations、IPv6、Asia Pacific Peering 及 APCAUCE Anti-SPAM & Net Abuse 等七個主題。APNIC 的主題中包含了 IX、IPv6、DNS、Routing 等 SIG（Special Interest Group）；APCERT Security 主題則是討論及說明 APCERT CSIRT project 的成果；MINC 主題是探討多國語言的 Domain name 合作與運作的問題；VoIP 主題包含了介紹 VoIP 核心技術、實際建置經驗交流及討論；Internet Routing & Operations 主題介紹盛行的 L2 及 L3 VPN、Traffic Engineering、QoS 及實務運作經驗交流等；IPv6 主題是延續近年來 IPv6 實作與應用的討論；Asia Pacific Peering 主題是討論歐美各國 peering 的運作模式及現況，並由與會人士分享及討論亞太各國 peering 的運作及狀況；Anti-SPAM & Net Abuse 主題是討論 Anti-SPAM 及 Abuse 的現況。

本文電子檔已上傳至出國報告資訊網

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出席「亞太國際學術網路年會 APRICOT 2004 會議」
心得報告

一、 會議基本資料

會議名稱：亞太國際學術網路年會 APRICOT 2004 會議

時間：93 年 2 月 23 日 至 93 年 2 月 26 日

地點：馬來西亞

參加國家人員：亞太地區各國網際網路相關組織及人士

二、 會議目的

APRICOT（Asia-Pacific Region Internet Conference of Technology）會議是由 APNIC（Asia Pacific Network Information Center）所發起，第一屆的會議於 1996 年在新加坡召開，爾後定期每年二或三月於亞太各國輪流舉辦，會中的主題以網路實作應用技術為主，同時也有關於亞太區域相關的網路運作議題。APRICOT 也同時提供亞太區域網際網路經驗分享及交流的平台，促進亞太國家的網路交流與技術，且間接引導各國政府發展與制定網路相關策略。近年來每次與會人數均達六百人以上、參與的國家含括亞太區域三十多個國家，是亞太區域最大的網際網路會議，與會人員含括各國 ISP 網路相關技術人員與主管、跨國的網路設備與電路供應商、網路相關的管理及策略制定組織、及少部分政府與學界人士等。今年的會議主題除了近來發展快速的 IPv6 與 Security 外，還特別探討 AS（Autonomous System） Peering 的相關議題，Peering 的策略及發展是影響一個地區網路發展的重要因素，希望能藉這次會議擷取各國的經驗，供我國未來的網際網路發展與管理作為參考。

三、 APRICOT 2004 Tutorial/ APRICOT 2004 Conference

會議資訊及背景資料

APRICOT 2004 是由 APNIC（Asia Pacific Network Information Center）所發起的年度亞太區域網路研討會，爲目前亞太區域網際網路研討會中最具歷史及最具規模的會議。除可透過此會議觀摩、學習亞太區域各國 Internet 之發展經驗及技術外，會議主辦單位並希望可以透過此一會議讓亞太區域國家能夠同步提昇網際網路技術與經驗。

本次爲 APRICOT 第九次之會議，由馬來西亞 PIKOM 主辦，馬來西亞能源、通信及多媒體部（Ministry of Energy, Communication and Multimedia Malaysia）協辦，於 2 月 23 至 26 日在馬來西亞吉隆坡 Palace of the Golden Horses 飯店的國際會議廳舉行。今年有來自三十多個國家，超過六百人與會。本次研討會的主題是針對目前及未來 IPv6 實際應用的問題及技術等問題作研討及報告；Security 相關問題的討論；還有亞太區域 AS（Autonomous System） Peering 的相關議題。相關資訊已在 Internet 上：
http://www.apricot2004.net 或 http://www.apricot.net/。

四、 會議議程（Program Schedule）及會議內容

（一）議程：詳細資料請參考附件一

Monday, 23 February

08:30 ~ 18:00 Registration

09:00 ~ 12:30 Technical Tutorials (10 concurrent sessions)

12:30 ~ 14:00 Lunch

14:00 ~ 17:30 Technical Tutorials (10 concurrent sessions)

Tuesday, 24 February

08:30 ~ 18:00 Registration

09:00 ~ 12:30 Technical Tutorials (10 concurrent sessions)

12:30 ~ 14:00 Lunch

14:00 ~ 17:30 Technical Tutorials (10 concurrent sessions)

Wednesday, 25 February

08:30 ~ 18:00 Registration

09:00 ~ 10:30 Opening Plenary Session

11:00 ~ 12:30 Concurrent Sessions (APNIC、APCERT、MINC、VoIP、

Internet Routing)

12:30 ~ 14:00 Lunch

14:00 ~ 15:30 Concurrent Sessions (APNIC、APCERT、MINC、VoIP、

Internet Routing)

16:00 ~ 17:30 Concurrent Sessions (APNIC、APCERT、MINC、VoIP、

Internet Routing)

Thursday, 26 February

08:30 ~ 18:00 Registration

09:00 ~ 10:30 Concurrent Sessions (APNIC、IPv6、Asia Pacific Peering、

Anti-SPAM & Abuse、Internet Routing)

11:00 ~ 12:30 Concurrent Sessions (APNIC、IPv6、Asia Pacific Peering、

Anti-SPAM & Abuse、Internet Routing)

12:30 ~ 14:00 Lunch

14:00 ~ 15:30 Concurrent Sessions (APNIC、IPv6、Asia Pacific Peering、

Anti-SPAM & Abuse、Internet Routing)

16:00 ~ 17:30 Concurrent Sessions (APNIC、IPv6、Asia Pacific Peering、

Anti-SPAM & Abuse、Internet Routing)

（二）會議內容：

  1.技術性研討會（2 月 23 日至 24 日），共有 26 場分別是：

- Practical Deployment Guidelines for MPLS
- APNIC Internet Routing Registry
- ISP Security Deploying and Using Sinkholes
- Creating and Managing Computer Security Incident Response Teams
- BGP Introduction and Deployment for Service Providers
- Advance Routing & Traffic Control in Linux
- Internet Bandwidth Management and Web Caching with Squid
- Metro Ethernet: The First/Last Mile Technology
- Various Technique in Mitigating D/DOS Attacks
- Source Specific Multicast and Nextgen Media Distribution Technologies
- Developments in MPLS Technology and Deployments
- Network Security: Essential Steps to Secure Carrier Scale Networks
- Packet Voice Backbone Network Design
- Anti-Spam & Anti-Net Abuse
- APNIC Internet Resource Management Essentials
- Network Security: The Principles of Threats, Attacks, Intrusions
- Beyond Fault Management – Implementing a Network Operations Center to Maintain High Availability
- Convergence of Data Network Technologies to a Common Packet Backbone
- 802.11 Tech for Hotspots and WISPs
- Constructing Internet Exchanges
- Introduction to IPv6

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> Traffic Engineering Beyond MPLS

> 3G Data Network: Design Issues & Case Studies

> APTLD Technical Workshop

> Next Steps in Broadband Services and Network Designs

> Introduction to SIP and VoIP Open Source Implementations

2.研討會總共有八個主題，分為 37 個子題（場次）

3.實際應用展示會有 5 場

4.大會專題討論 1 場

（三）研討會內容分為八個主題

1.亞太網路資訊中心特別議題（APNIC (Asia Pacific Network Information Center) SIG (Special Interest Group)）

2.亞太網路危機處理中心網路安全議題（APCERT Security）

3.多國語言網際網路名稱協會議題（MINC International Domain Names）

4.網際網路語音系統議題（VoIP）

5.網際網路路由及運作議題（Internet Routing & Operations）

6.第六代網際網路協定議題（IPv6）

7.亞太網際網路互聯議題（Asia Pacific Peering）

8.垃圾郵件及網路濫用議題（APCAUCE Anti-SPAM & Net Abuse）

依各項分類分別說明如下：

1.亞太網路資訊中心特別議題（APNIC (Asia Pacific Network Information Center) SIG (Special Interest Group)），分成七個子題：

> 網際網路互聯交換中心（IX SIG）議題：供亞太區域網際網路互聯交換中心現況及活動交流，除了亞太區域日本的 JPNAP、印尼的 IIX、紐西蘭的 APE 及 WIX、澳洲的 WAIX 現況及活動報告外，還

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邀請歐洲的 Euro-IX 及英國的 LINX 與會討論 IX 的運作及經驗分享。

➢ 第六代網際網路協定技術（IPv6 Technical SIG）議題：提供第六代
網際網路協定實作經驗分享，並回顧過去一年來的技術及應用相關
問題。

➢ 網路位置發放及管理（Policy SIG）議題：提供 APNIC、各個國家
網路註冊中心（NIR）及 ISP 網際網路位置（IP）資源管理及發放相
關策略的探討及制定。

➢ 網際網路管理資訊資料庫（Database SIG）議題：驗證 APNIC Whois
資料庫運作，並探討網路資訊註冊實作、資料庫安全、資料庫功能
等相關議題。

➢ 網路領域名稱伺服器運作（DNS Operations SIG）議題：驗證亞太區
域網路領域名稱反解的實作及策略問題，其中包含 IPv6、動態更新、
安全網路領域名稱伺服器、現行的網路領域名稱伺服器軟體等。

➢ 網路路由協定（Routing SIG）議題：討論網際網路路由協定與策略
的重要議題，包含網際網路路由表的成長、路由穩定、路由安全、
及網際網路路由註冊等等。

➢ 國家網際網路註冊組織（NIR SIG）議題：供各個國家網路註冊中心
（NIR）分享運作及管理策略，並探討相關的合作議題。

2.亞太網路危機處理中心網路安全議題（APCERT Security），分成三個
子題：

➢ 網路入侵議題：報告網路危機處理小組(CSIRT)一年來處理網路病
蟲問題的經驗，報告網路犯罪的相關議題，及處理網路攻擊的經驗
分享。

➢ 網路危機處理小組(CSIRT)現況及技術議題：介紹網路攻擊的方法
及型態，說明流量監控對網路入侵的幫助，報告用數值分析評估分
析 IDS 系統的演進。

➢ 處理網路入侵時的合作議題：介紹亞太網路危機處理中心(APCERT) 的工作及提供的服務，網路入侵及網路安全的策略建議報告，各個 組織間遭遇網路安全問題時的合作方式討論。

3.多國語言網際網路名稱協會議題（MINC International Domain Names）：

➢ 分別探討多國語言網際網路名稱標準訂定，多國語言網際網路名稱 應用程式的支援及計算運作問題。

4.網際網路語音系統議題（VoIP）：

➢ 介紹 VoIP 技術，VoIP 實作經驗討論，討論 VoIP 實作及策略相關議 題。

5.網際網路路由及運作議題（Internet Routing & Operations）：

➢ 分別討論網路流量管理，路由技術及技巧，路由運作準則及原 理，及網路頻寬保障及對網路運作影響等問題。

6.第六代網際網路協定議題（IPv6）：

➢ 分別討論 IPv6 網路實際運用經驗，IPv6 相關應用程式，亞洲各國 IPv6 工業發展等。

7.亞太網際網路互聯議題（Asia Pacific Peering），分成四個子題：

➢ 網際網路互聯生態介紹：說明美國現有的網際網路互聯狀況、美國 網際網路交換互聯交換中心的運作，並討論網際網路互聯的效益 等。

➢ 亞太區域國際網際網路互聯座談會：亞太區域國家與國際的網際網 路交換互聯合作及經驗報告，並由與會人士討論亞太區域國家與國 際網際網路互聯的狀況，並給予相關建議。

➢ 亞太區域網際網路互聯座談會：報告亞太區域國家間的網際網路互 聯現況，並討論亞太區域國家間的互聯問題。

➢ 亞太區域國家內部網際網路互聯座談會：報告亞太區域國家內部網

際網路互聯現況，並分享各國網際網路互聯相關議題。

8.垃圾郵件及網路濫用議題（APCAUCE Anti-SPAM & Net Abuse），：

➢ 分別討論 DNS 阻斷垃圾郵件的方式及亞太區域 ISP 的防治現況，
發表反制垃圾郵件相關報告等等。

（四）實際應用展示會內容（Demonstration）：對新的網路技術實作經驗及
相關的實作研究討論。內容包括韓國使用 IPv6 網路攝影機實作遠端
監控、網路設備廠商提供網路設備與新的技術整合應用展示、海纜及
網際網路服務提供業者現行架構及網路服務展示等等。

（五）大會專題討論（Plenary Panel）：分別發表對網際網路安全議題看法的
演說；及對網際網路的未來目標發表意見。網際網路安全主題由
Suguru Yamaguchi 博士擔任演說者，其演說內容討論目前網路安全架
構，並說明因應網路安全問題所需要的解決方法，新的解決方法將需
要包含：(1)全面式（內部網路也可能是可疑的入侵點）的弱點防護；
(2)需要經常性檢視分析網路安全紀錄；(3)使用者需要的應用不能因
為網路安全管理而犧牲；(4)網路安全管理不可影響網路效能。另外
針對網路入侵回應，Suguru Yamaguchi 博士也提出了以下幾點看法：
(1)需要專業人員處理相關問題的經驗及能力；(2)對單一網路安全事
件需要有更廣泛的視野及研究；(3)需要良好的網路安全資訊管理及
分享。這些建議對於現行的網路安全並不是明確不變的答案，網路安
全的技術不斷演進，所以最重要的是網路安全經驗的分享、訓練與準
備。

　　對網際網路的未來目標發表演說的是 Dave Crocker，他首先說明
他個人對於現在網際網路的一些經驗及看法：如新的網路應用傳播較
慢、網際網路架構趨於分散、網際網路規模越來越大等。他並建議與

會人員：(1)設計單純化：雖然未來對網路的需求很多，但是其實目前真正需要的只是其中的一小部份，不需要在現在就將所有的需求都全部加在網路上；(2)加速網際網路規格循環：允許網際網路技術透過經驗法則累加演進，理論基礎與實務驗證的循環必須要更快速才能滿足未來的環境；(3)需要更多、更快的跨領域合作：網路應用、網路運作、網路安全、網路管理等領域需要更密切的合作，才能讓網際網路繼續演進。綜合上述建議，Dave Crocker 希望能讓未來的網際網路依據這些方法同時保留原有的優點並快速進步。

會人員：(1)設計單純化：雖然未來對網路的需求很多，但是其實目前真正需要的只是其中的一小部份，不需要在現在就將所有的需求都全部加在網路上；(2)加速網際網路規格循環：允許網際網路技術透

五、 會議心得

（一）亞太地區的網際網路發展並非均衡的，亞太地區的網際網路發展較健
全的分別是日本、韓國、澳洲、新加坡及我國，其他的國家因為經濟
或者其他因素的影響發展較慢，APRICOT 會議的主要目的之一就是
希望透過亞太地區國家之間的網際網路現況交流，促進各國均衡發展
網路環境，並且促成亞太地區網際網路合作及互聯等。這次的會議
中，不僅有往常的網路技術交流、網路應用探討、網路發展策略等議
題，還特別增加了三個亞太區域網際網路互聯的座談會，藉由這幾個
座談會可以讓各國汲取其他國家的網際網路互聯與合作經驗，了解其
他國家網路的環境及文化，進一步拉近各國網際網路的距離，也為未
來各國網際網路互聯與合作開啟了另一個聯絡的管道。對於亞太區域
國家間的網際網路合作及互聯都有正面的幫助。

（二）網路安全及網路合理使用的議題是近年來一直被討論的，在這次的會
議中也不列外，網路安全的議題因應網路技術的進步，每次都有新的
入侵或攻擊形態產生，軟體的漏洞對於網路使用者來說已經是一個無
可避免的夢靨，近年來每年都有大規模新病毒及病蟲感染的問題出
現，每年的網路安全技術因此也都有相當大的進步，但這終究是後期
的治標方法，對於網路的維運及管理者來說，這些技術及技巧只能對
可能的問題作先期阻擋或是對已經發生的問題作適當的反應處理，但
是最終的問題解決還是在伺服器或是軟體本身，一方面需要軟體供應
商致力於避免漏洞的產生，另一方面則是需要加強網路使用者的知
識，選用適當的且較安全的作業系統軟體、養成良好的網路使用習慣
等等，這些基礎的措施及知識才是對於網路安全及合理使用最根本的
解決方法。

（三）以往 IPv6 發展以亞太及歐洲地區發展最快也較重視，去年一年來也
　　可以感受到美國政府方面對 IPv6 發展開始積極投入，近年來美國主
　　要的網路設備廠商、作業系統廠商、設備供應商也都積極投入 IPv6
　　支援及研發。無可避免的這次的會議中也討論相關的應用及發展趨
　　勢，IPv6 議題討論的重點已經由最先開始的網路基礎建設漸漸轉向
　　到 IPv6 的網路應用層面，IPv6 能否順利轉移的關鍵將會落在 IPv6 相
　　關的應用上，網路基礎建設將不是影響 IPv6 能否普及使用的關鍵，
　　當出現只有 IPv6 適合的網路應用環境時，IPv6 自然會逐漸壯大成形。

（四）多國語言網路領域名稱的議題是亞太地區各國積極參與及制定國際
　　標準的一個主題，亞太地區參與熱烈的原因在於亞太地區國家的語言
　　文字之特殊性。這個主題中我國的 TWNIC 也多次代表我國出席國際
　　間相關會議、參與各個國際間的討論。

六、　對於未來國內的網路發展及建議

　　國內網路的使用人口與家庭普及率在連年推廣及價格下降後，都有相當多的成長，但是在成長之後伴隨而來的是網路安全問題及網路濫用問題，越來越多的資訊透過網路流通，所以每一個網路使用者對於網路安全的概念都應該有一定程度的了解，並且對網路濫用的影響等問題要有深刻的認識。近年來網路相關的入門課程著重的是網路的使用，而網路安全及網路濫用的問題卻沒受到應有的重視，如果能在教導網路使用的同時一併教育使用者安全及合理使用的相關知識，從開始使用網路時就能認識網路安全及網路合理使用範圍，對網際網路的應用及發展都是正面的。另外，對於惡意的網路濫用及網路入侵的法律管制及相關法令的宣導對網路安全也是有很大的助益。

　　國內網際網路互聯交換中心（IX）的發展算是相當早的，因為網路使用環境及外在環境的關係，導致國內網際網路互聯交換中心所發揮的功能僅對於國內業者有幫助，但是網際網路是跨國性的，對於國際上有意與我國 ISP 互聯的網際網路業者來說，我國的網際網路互聯交換中心他們無法了解其運作及進入的方式，最主要的問題是：「缺乏英文資訊」，國內的四個網際網路互聯交換中心所提供的資訊絕大部分都缺乏英文資訊供其他國家參考，這樣間接提高我國網際網路與其他國家互聯的困難度，使有意要進入我國網際網路互聯交換中心的國際型 ISP 或業者有相當大的困難，幾乎這次與會的跨國 ISP 對我國網際網路互聯交換中心都是相同的反應，建議引導我國網際網路互聯交換中心提供英文化的資訊，以促進我國網際網路與國際網際網路交流與合作。

七、　本次研討會的相關資料於下列網頁中

http://www.apricot2004.net/papers.asp

八、　附錄

<附件一>會議議程

<附件二>會議內容資料

附 件 一

	18-Wed	19-Thur	20-Fri	21-Sat	22-Sun	23-Mon	24-Tue	25-Wed	26-Thur	27-Fri
	Pre-Conference Workshops					Apricot Tutorials		Apricot Plenary & Conference Sessions		
Day Program						NIR Tech Resource Mgnt	EC Meeting	Newcomers Breakfast	AC Breakfast Meeting	APNIC Members Meeting
							APIA Board Meeting	APIA AGM		
						APNIC HMC				
									APTLD AGM	
						APSIRC Closed WS	APSIRC Members Meeting			
						APCERT Steering Committee Meeting				
						APSIRC Members Reception				
					AP* Retreat					
Night Program						Birds of a Feather				
						NIR WS	APOPS			
								APNIC Social		
									CERT Seminar	
					WS Social		APRICOT Opening Social		APRICOT Closing Social	

Tutorial Day 1 (23rd February 2004)

Time										
9:00 - 10:30 AM	Practical Deployment Guidelines for MPLS-VPN Networks - Monique Morrow Cisco	APNIC Internet Routing Registry (IRR Tutorial)	ISP Security Deploying and Using Sinkholes - Danny McPherson Arbor Networks	Creating and Managing Computer Security Incident Response Teams (CSIRTs) - Mark Zajicek Software Engineering Institute (SEI) at Carnegie Mellon University	BGP Introduction and Deployment for Service Providers - Philip Smith Cisco	Advance Routing & Traffic Control in Linux - Kishor Panth Kathmandu College of Management	Internet Bandwidth Management and Web Caching with SQUID - Gihan Das ICT Agency	Metro Ethernet: The First/Last Mile Technology - Lim Wong Cisco	Various technique in mitigating DDOS attacks - Seo Boon Ng Cisco	Source Specific Multicast and NextGen Media Distribution Technologies - Mark Williams Juniper
10:30 AM	Morning [Tea]									
11:00 AM - 12:30 PM	Practical Deployment Guidelines for MPLS-VPN Networks - Monique Morrow Cisco	APNIC Internet Routing Registry (IRR Tutorial)	ISP Security Deploying and Using Sinkholes - Danny McPherson Arbor Networks	Creating and Managing Computer Security Incident Response Teams (CSIRTs) - Mark Zajicek Software Engineering Institute (SEI) at Carnegie Mellon University	BGP Introduction and Deployment for Service Providers - Philip Smith Cisco	Advance Routing & Traffic Control in Linux - Kishor Panth Kathmandu College of Management	Internet Bandwidth Management and Web Caching with SQUID - Gihan Das ICT Agency	Metro Ethernet: The First/Last Mile Technology - Lim Wong Cisco	Various technique in mitigating DDOS attacks - Seo Boon Ng Cisco	Source Specific Multicast and NextGen Media Distribution Technologies - Mark Williams Juniper
12:30 PM	Lunch									
2:00 - 3:30 PM	Practical Deployment Guidelines for MPLS-VPN Networks - Monique Morrow Cisco	APNIC Internet Routing Registry (IRR Tutorial)	Developments in MPLS technology and deployments - Andrew Coward Juniper Networks	Creating and Managing Computer Security Incident Response Teams (CSIRTs) - Mark Zajicek Software Engineering Institute (SEI) at Carnegie Mellon University	BGP Introduction and Deployment for Service Providers - Philip Smith Cisco	Advance Routing & Traffic Control in Linux - Kishor Panth Kathmandu College of Management	Internet Bandwidth Management and Web Caching with SQUID - Gihan Das ICT Agency	Metro Ethernet: The First/Last Mile Technology - Lim Wong Cisco	Network Security Essential Steps to Secure Carrier Scale Networks - Wayne Chan Juniper	Packet Voice Backbone Network Design - Matthew Kolon Juniper
3:30 PM	Afternoon Tea									
4:00 - 5:30 PM	Practical Deployment Guidelines for MPLS-VPN Networks - Monique Morrow Cisco	APNIC Internet Routing Registry (IRR Tutorial)	Developments in MPLS technology and deployments - Andrew Coward Juniper Networks	Creating and Managing Computer Security Incident Response Teams (CSIRTs) - Mark Zajicek Software Engineering Institute (SEI) at Carnegie Mellon University	BGP Introduction and Deployment for Service Providers - Philip Smith Cisco	Advance Routing & Traffic Control in Linux - Kishor Panth Kathmandu College of Management	Internet Bandwidth Management and Web Caching with SQUID - Gihan Das ICT Agency	Metro Ethernet: The First/Last Mile Technology - Lim Wong Cisco	Network Security Essential Steps to Secure Carrier Scale Networks - Wayne Chan Juniper	Packet Voice Backbone Network Design - Matthew Kolon Juniper

Tutorial Day 2 (24th February 2004)

Time							
9:00 - 10:30 AM	Anti-Spam & Anti-Net Abuse - Suresh Ramasubramanian	APNIC Internet Resource Management Essentials	Network Security The principles of Threats, Attacks, Intrusions - Ray Hunt	Beyond Fault Management - Implementing a Network Operations Center (NOC) to Maintain High Availability - Jim Thompson Cisco	Convergence of Data Network Technologies to a Common Packet Backbone - David O'Leary Juniper	802.11 Tech for Hotspots and WISPs - Matt Peterson BAWUG	Constructing Internet Exchanges - Bill Woodcock Packet Clearing House
10:30 AM	Morning Tea						
11:00 AM - 12:30 PM	Anti-Spam & Anti-Net Abuse - Suresh Ramasubramanian	APNIC Internet Resource Management Essentials	Network Security The principles of Threats, Attacks, Intrusions - Ray Hunt	Beyond Fault Management - Implementing a Network Operations Center (NOC) to Maintain High Availability - Jim Thompson Cisco	Convergence of Data Network Technologies to a Common Packet Backbone - David O'Leary Juniper	802.11 Tech for Hotspots and WISPs - Matt Peterson BAWUG	Constructing Internet Exchanges - Bill Woodcock Packet Clearing House
12:30 PM	Lunch						
2:00 - 3:30 PM	Anti-Spam & Anti-Net Abuse - Suresh Ramasubramanian	APTLD Technical Workshop	Network Security The principles of Threats, Attacks, Intrusions - Ray Hunt	Beyond Fault Management - Implementing a Network Operations Center (NOC) to Maintain High Availability - Jim Thompson Cisco	Convergence of Data Network Technologies to a Common Packet Backbone - David O'Leary Juniper	802.11 Tech for Hotspots and WISPs - Matt Peterson BAWUG	Constructing Internet Exchanges - Bill Woodcock Packet Clearing House
3:30 PM	Afternoon Tea						
4:00 - 5:30 PM	Anti-Spam & Anti-Net Abuse - Suresh Ramasubramanian	APTLD Technical Workshop	Network Security The principles of Threats, Attacks, Intrusions - Ray Hunt	Beyond Fault Management - Implementing a Network Operations Center (NOC) to Maintain High Availability - Jim Thompson Cisco	Convergence of Data Network Technologies to a Common Packet Backbone - David O'Leary Juniper	802.11 Tech for Hotspots and WISPs - Matt Peterson BAWUG	Constructing Internet Exchanges - Bill Woodcock Packet Clearing House

Tutorial Day 2 (additional tracks)

Time			
9:00 - 10:30 AM	Introduction to IPv6 - Jeff Doyle Juniper	Traffic Engineering Beyond MPLS - Aman Maghbouleh Cariden Technologies	3G Data Network Design Issues & Case Studies - Simon Newstead Juniper
11:00 AM - 12:30 PM	Introduction to IPv6 - Jeff Doyle Juniper	Traffic Engineering Beyond MPLS - Aman Maghbouleh Cariden Technologies	3G Data Network Design Issues & Case Studies - Simon Newstead Juniper
2:00 - 3:30 PM	Introduction to IPv6 - Jeff Doyle Juniper	Next Steps in Broadband Services and Network Designs - Robert Healey Juniper	Introduction to SIP and VoIP Open source implementations - Ruwan Silva Lanka Communications Services
4:00 - 5:30 PM	Introduction to IPv6 - Jeff Doyle Juniper	Next Steps in Broadband Services and Network Designs - Robert Healey Juniper	Introduction to SIP and VoIP Open source implementations - Ruwan Silva Lanka Communications Services

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Wednsday Feb 25 Confernce Day 1

	APNIC I	APNIC II	APCERT Security (Yuri Ito)	MINC International Domain Names (Tan Tin Wee)	VoIP (Garub Raj Upadhaya)	Internet Routing & Operations I (Ananth Nagaraian)
9:00 - 10:30	Plenary Session					
10:30 - 11:00	Break					
11am - 12:30	IX SIG	IPv6 technical SIG	CSIRT, Incident Response, and APCERT	Basic primer on IDN RFCs and IDN Interoperability	Core VoIP Technology	Supporting Wholesale & Multi-carrier environments
12:30 - 14:00	Lunch					
14:00 - 15:30	Policy SIG		Updating CSIRT Projects and Technologies	IDN implementation and roll out in different gTLDs and ccTLDs, Languages and scripts	Deployment Experiences	Traffic Engineering
15:30 - 16:00	Break					
16:00 - 17:30	Policy SIG		Cooperation Model among Multiple Sectors: CERT Bridging between Governments, Industry, Law Enforcement, and Academy	IDN-enabled applications, Email Addresses & Language vs Script computing problems	Deployment & Policy Issues	Routing Technologies & Techniques

Thursday Feb 26 Confernce Day 2

	APNIC I	APNIC II	IPv6 (Takashi Arano)	Asia Pacific Peering (Bill Norton)	APCAUCE Anti-SPAM & Net Abuse (Suresh Ramasubramanian)	Internet Routing & Operations II (Ananth Nagarajan)
9:00 - 10:30	Database SIG		IPv6 Opening Ceremony & Keynote Panel	Introduction to the Internet Peering Ecosystem	APCAUCE Keynote: Dave Crocker	Services on IP Networks (L2 & L3 VPNs)
10:30 - 11:00	Break					
11am - 12:30	Policy SIG		IPv6 Production Network Experiences	Panel: International Asia Pacific Peering: Seasoned Peering Coordinators share their experiences	Panel: DNS Block Lists and Asian ISPs	Routing and operations - guidelines & philosophies
12:30 - 14:00	Lunch					
14:00 - 15:30	DNS operations SIG		IPv6 Applications	Panel: Regional Asia Pacific Peering: Individual Peering Ecosystems and peering dynamics	Anti-Spam Papers	Routing Experiences
15:30 - 16:00	Break					
16:00 - 17:30	Routing SIG	NIR SIG	Panel: Asian Industry and IPv6	Panel: Domestic Asia Pacific Peering: Internal country peering related issues	Panel on RMX record proposals (SPF, DRIP, AMTP etc)	Panel Discussion: IP QoS and its impact on scalability

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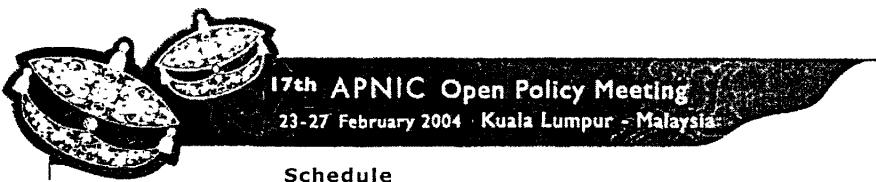
Schedule

Floor plans are available in Onsite Notice Board.

Minutes

Programme ▶
HM consultation
EC election
Social event
Sponsorship
Photo gallery
Past meetings ▶
APRICOT 2004
APNIC 17 home
APNIC home

		Tutorials		Policy meetings		Member meeting
		Monday 23 February	Tuesday 24 February	Wednesday 25 February	Thursday 26 February	Friday 27 February
8:30				Registration		
9:00		IRR	Internet resource management essentials	APRICOT plenary	Database SIG	APNIC Member Meeting
10:30				Morning tea		
11:00		IRR	Internet resource management essentials	IPv6 technical SIG / IX SIG	Policy SIG	APNIC Member Meeting
12:30				Lunch		
14:00		IRR	APTLD technical workshop	Policy SIG	DNS operations SIG	APNIC Member Meeting
15:30			·	Afternoon tea		
16:00		IRR	APTLD technical workshop	Policy SIG	Routing SIG / NIR SIG	APNIC Member Meeting
17:30				Break		
18:00			APOPS	APNIC website BOF / APNIC/APCERT whois database BOF	CRISP/EPP BOF	
19:00			APRICOT opening event	APNIC social event	APRICOT closing reception	

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Programme | HM consultation | EC election | Social event | Sponsorship | Future meetings | Past meetings | APRICOT 2004 | APNIC 17 home | APNIC home

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附 件 二

APRICOT 2004
KUALA LUMPUR

HOME | NEWS | REGISTRATION | CONTACT US | SPONSORSHIP

- HOSTS
- VENUE
- PROGRAM
- CALL FOR PAPERS
- FELLOWSHIP
- ABOUT APRICOT
- PAST APRICOTS
- ABOUT MALAYSIA
- ENTERING MALAYSIA

- TRANSPORTATION
- ACCOMMODATIONS
- SIGHT-SEEING
- SITEMAP

PROGRAM

The APRICOT 2004 - KL program is as listed below.

18 - 22 February 2004: Workshop
23 - 24 February 2004: Tutorial
25 - 26 February 2004: Conference

Download Program Masterlist
Download Tutorial Program
Download Technical Conference Program

Tutorial speakers Biodata and Abstracts

- Tutorial Day 1 (23rd February 2004)
- Tutorial Day 2 (24th February 2004)

Conference Program Schedule

- MINC Conference (25th February 2004)
- APCERT Security Conference (25th February 2004)
- VoIP Conference (25th February 2004)
- Internet Routing and Backbone Operations (25 & 26 February 2004)
- APNIC Conference (25 & 26 February 2004)
- APCAUCE Conference (26th February 2004)
- IPv6 Conference (26th February 2004)
- Asia Pacific Peering (26th February 2004)

Birds of a Feather

- WSIS / Internet Governance BoF (22nd February 2004)
- PGP key Signing BoF (24th February 2004)
- APNIC Website BoF (25th February 2004)
- APNIC / APCERT Whois Database BoF (25th February 2004)
- Microsoft - Agilent Security BoF (25th February 2004)
- Enum / SIP BoF (25th February 2004)

Other Events

Native Names Promotion Seminar (23rd February 2004)

NO	CODE	NAME	COMPANY	TITLE OF TUTORIAL	BIODATA OF SPEAKER	ABSTRACT OF TUTORIAL
1	MTA:ISP Security Deploying and Using Sinkholes	Danny McPherson	Arbor Networks	ISP Security: Deploying and Using Sinkholes [1/2 Day Tutorial]	Danny McPherson is currently a member of the Architecture and Development groups at Arbor Networks. Prior to Arbor he was Director of Emerging Technology at Amber Networks (acquired by Nokia). He has held technical leadership positions with Qwest, Genuity & MCI and still maintains consultancy roles with several service providers...	This tutorial will explain how to build a sinkhole, using generalized examples from ISP deployments around the world. Configuration using JUNOS and IOS will be used to demonstrate the various ways trigger routers and target routers in the sinkholes are safely, scalably, and efficiently configured. Architectural considerations relating to network topology and placement of sinkholes in the ISP's network will be covered, along with keyboard deployment options. A multitude of tools that can be placed inside the sinkhole will also be discussed. These include a variety of freeware, shareware, home-built, and commercial tools - covering the diversity available to ISPs of any size. The source materials are derived from live operational deployments, which can be modified and applied to any large IP transport network.
2	MTA:Mitigating DrDOS Attacks	Seo Boon Ng	Cisco	Various technique in mitigating DrDOS attacks [1/2 Day Tutorial]	There will be two instructors : Ng Seo Boon - Network Consulting Engineer from Cisco System. Primary job responsibility is to work with large ISP in North Asia. Helping in their running of their network and mitigating DrDOS attacks. Network design and such. Have spoke on the topic in April 2003 ... Have extensive working experience with ISP in Korea, Malysia and Australia. Perform network design and review for customers	half to 1 day session on various DrDOS mitigation technique base on Barry Green's security bootcamp presentation. There will be hands-on lab training on various technique namely: - using ACLs - using Netflow - remote trigger blackhole - sinkhole - Various steps to response to different type of attacks
3	MTA:Source Specific Multicast and Nextgen Media Distribution Technologies	Mark Ian Williams	Juniper	Source Specific Multicast and Nextgen Media Distribution Technologies [1/2 Day Tutorial]	Mark Ian Williams is currently responsible for Research and Education business development for Juniper Networks in Asia Pacific. In the role Mark works with leading academic organisations in development of new advanced network technology and applications, including IPv6, MPLS and multicast. Prior to this role Mark has held a number of senior technical positions, most recently with Nortel Networks based in Beijing. Mark is an active participant in many such conferences and workshops, and a previous presenter at many such events	Half-day tutorial: Source Specific Multicast and Nextgen Media Distribution Technologies. Multicast Introduction (75 mins) - sparse mode and dense mode, RPF trees, etc. - multicast routing - PIM SM, DVMRP, MOSPF - IGMP v1, v2, v3, IGMP snooping, IGMP proxy, IGMP relay - Inter-AS multicast routing - MSDP and MBGP - Multicast and MPLS - Multicast and IPv6 - PIM-SSM (10-20 mins) Multicast-Based Media Distribution (50-60 mins) - why distribution on metcas does not work with broadcast trees - why ASM multicast techniques are problematic - The value of SSM techniques (security, increased channel space, simplifies inter AS) - overview of available products and technologies
4	MTF Advance Routing & Traffic Control in Linux	Kishor Panth	Kathmandu College of Management	Advance Routing & Traffic Control in Linux [Full Day Tutorial]	Kishor Panth, after having studied Post Diploma in Computer Application from One of the reputed Institute (Government Polytechnic Panaji - Goa, India after my studies of MECHANICAL ENGINEERING from the same Institute Government Polytechnic Panaji - Goa, India I worked as 'Trainee Programmer' at MFS - PHI Systems Ltd Goa from 14th December 98 to 18th April 99. The company is into Export Oriented Software Development. I worked as 'Senior Marketing Officer (Software & Peripheral)' at Infotech Solution Margao, Goa, India from 2nd June99 to 20th June 2000... (Nepal Internet Exchange)	The Topic will cover the following titles 1 Introduction to Iproute 2 Rules - routing policy database 3 GRE and other tunnels 4 Internet 5 CSIRT name server 6 Queueing Disciplines for Bandwidth Management 7 Load sharing over multiple interfaces 8 Dynamic routing - OSPF and BGP
5	MTF BGP Introduction and Deployment for Service	Philip Smith	Cisco	BGP Introduction and Deployment for Service Providers [Full Day Tutorial]	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 UNINETT (now part of UKERNA), 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	This tutorial introduces service providers to BGP, including BGP, eBGP and common attributes. It will then introduce some more advanced features of BGP, and look at the various scaling techniques available when an ISP network of an IGP, and examine policy options available through the use of local preference, MED and communities. The second half of the tutorial will then cover multihoming techniques, providing example strategies for configuring multiple connections to neighbouring ISPs, and finishing with a case study using many of the techniques covered in the tutorial
6	MTF Creating & Managing CSIRTs	Mark Zajicek	Software Engineering Institute (SEI) at Carnegie Mellon University	Creating and Managing Computer Security Incident Response Teams (CSIRTs) [Full Day Tutorial]	Mark Zajicek is member of the technical staff at the Software Engineering Institute (SEI) at Carnegie Mellon University (Pittsburgh PA, USA). Zajicek's current work is focused on helping other organizations to build their own computer security incident response teams (CSIRTs). As a member of the CERT® CSIRT Development Team, he is responsible for providing guidance to new and existing CSIRTs, worldwide. He has co-developed a variety of documents and tutorial material, and is an instructor for a suite of courses that provide training for CSIRT management and technical staff... during his initial start-up for the Computing Facilities group at the SEI. Zajicek also helped support the CERT/CC during its initial start-up in 1988. Zajicek holds a Bachelor of Science in Electrical Engineering and Biomedical Engineering from Carnegie Mellon University.	A full-day tutorial devoted to issues and topics relevant to creating and managing an effective CSIRT. The tutorial will provide: - an introduction to the purpose and structure of CSIRTs - insight into the type of work that CSIRT managers and staff may be expected to handle, - an overview of the incident handling process and the nature of incident response activities, - best practices in creating and managing a CSIRT Intended Audience : The tutorial is designed to provide managers and other interested staff with an overview of the issues involved in creating and operating a CSIRT. Individuals who may be tasked with creating a CSIRT - chief information officers (CIOs) - chief security officers (CSOs) - CSIRT managers - project leaders - project team members - system and network administrators - existing security staff - other upper management - human resources

NO	CODE	NAME	COMPANY	TITLE OF TUTORIAL	BIODATA OF SPEAKER	ABSTRACT OF TUTORIAL
7	MTF-RRR Tutorial	Mera Field & Andy Linton	APNIC	MTF: RRR Training [Full Day Tutorial]	Mera Field & Andy Linton	The APNIC Routing Registry is fully integrated in the existing APNIC Whois Database and it is available to all APNIC members. This tutorial provides opportunities for participants to learn features of Routing Registry, basics of Routing Policy Specification Language (RPSL), how to express routing policies using RPSL and how to extract routing policies from the APNIC Routing Registry using RtConfig tool. There will be some hands on demonstration on the use of RtConfig. Topics covered are: - APNIC database recap - What is IRR - Why use an IRR? o APNIC databases and the IRR o Using the Routing Registry o Benefit of using IRR - RPSL o RR objects review o Using RPSL in practice o IRR queries o Address prefix operator o AS path regular expressions o Action specification o Syntax of policy actions and filters - RtConfig o IRR toolset options o RtConfig command o Case studies o Using RtConfig command - The rest of the IRRToolSet. The tutorial is aimed at people who are already familiar with the APNIC Whois Database and want to learn more about the APNIC Routing Registry. A basic understanding of BGP routing and the APNIC Whois Database is assumed.
8	MTF-Internet Bandwidth Management & Web Caching wi	Gihan Dias	ICT Agency	Internet Bandwidth Management and Web Caching with SQUID [Full Day Tutorial]	Dr. Dias graduated from the University of Moratuwa in Electronics and Telecom. Engineering 1985 and was awarded a doctorate in Electrical Engineering and Computer Science from the University of California in 1992. Since 1992, he has been a Senior Lecturer in the Dept. of Computer Science and Engineering, University of Moratuwa, and served as the Head of the Dept. from 1997 to 1999. He was instrumental in setting up and maintaining the academic Internet in Sri Lanka (LEARN), and was the Technical Manager till 2003. He is Currently the Programme Director, (IT Human Resource Development of the Information and Communication Technology Agency of Sri Lanka. He has assisted a number of Internet service providers in setting up their networks, and was a consultant for several universities, government, and private sector organisations in the areas of networking, software, information systems, and security. His research focus is in the area of bandwidth-constrained networking, i.e., how to effectively use the Internet when bandwidth is at a premium.	The high cost of Internet bandwidth, both international and national, continues to be a major constraint for users and service providers in little region. Optimising the use of the available bandwidth while providing a good service to users is a prime concern of network managers. Since much Internet traffic is due to web access, web caching is a widely used solution. However, other types of traffic, such as multimedia and voice, are also important. Network traffic can be categorised as realtime, on-line, and off-line, and this tutorial will show how to deal with each of these types of traffic to make the most of your Internet connections. We will also show how differentiated levels of service can be provided to different groups of users. We will introduce caching systems and the Squid caching in particular. Participants will learn how Squid can be configured to optimise performance. We will show how to use Squid as a bandwidth manager, and the setting up of a set of inter-connected caches.
9	MTF-Metro Ethernet: The First and Mile Technology	Lim Wong	Cisco	Metro Ethernet: The First and Mile Technology [Full Day Tutorial]	I have been in IT and telecom industry for 17 years. I spent the last 6 years with Cisco Systems serving as network consultant for the Enterprise and Service Provider field of operations. I have been engaged in many large enterprise and service provider metro network designs, and also assisted with numerous complex network deployments. Prior to Cisco, I worked for Hughes Aircraft Company for nine years and have held many positions within the company's IT organization. I was the chief architect for the company's multi-protocol router based network and had managed the network for over six years. While at Hughes, I gained extensive experience in designing large scalable enterprise network.I graduated from Loyola Marymount University with a Bachelor of Science in Electrical Engineering. I was awarded with a two-year fellowship from Hughes Aircraft Company to pursue higher education. I received my Master of Science in Computer Science from UCLA.	Metro Network, with Ethernet as the last mile access technology, can deliver a variety of broadband services to the home and businesses. The 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 high Service Level Agreement to the businesses. What Metro technology, security and Quality of Service mechanism are needed to offer these services? Topics to be covered - Metro architecture - SDH, xDSL, CWDM & DWDM overview - MPLS switching concept, EoMPLS, MPLS-VPN - Metro Services □ Broadband Internet Access □ L2 VPN □ L3 VPN □ Multicast Video - Metro Ethernet Network Security - QoS and SLA
10	MTF-Practical Deployment for MPLS-VPN Networks	Monique Morrow	Cisco	Practical Deployment Guidelines for MPLS-VPN Networks [Full Day Tutorial]	Monique Morrow is currently CTO Consulting Engineer at Cisco Systems, Inc. She has 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 enterprises 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 has been a speaker in the following conferences: MPLS Congress–Paris, 2000; MPLScon 2000, London; MPLS Japan, 2002; APRICOT, Taipei, Taiwan, 2003, MPLScon 2003, Supercomm 2003, and has spoken in several Cisco Networker Conferences. Monique is co-author of the book Designing IP-based Services: Solutions for Vendors and Service Providers (Morgan-Kaufmann, 2002). Monique has also a technical review for the book, International QoS architectures and Mechanisms, Zheng Wang (Morgan-Kaufmann, 2001), she has contributed a chapter on MPLS in	This tutorial explores the practical aspects of planning and deploying an MPLS-VPN network. It is assumed that the participant possesses a basic knowledge of MPLS principles and operations. The tutorial will address planning and deployment of BGP-VPNs (intranet,extranet topologies), explore Inter-Autonomous Systems (Inter-AS) and Carrier Supporting Carriers (CsC) implementation guidelines and discuss MPLS-VPN security issues associated with such deployments. The instructors will further highlight CoS/QoS mechanisms in conjunction with Diff-Serv Traffic engineering; finally, the instructors will highlight MPLS OAM developments for operational consideration.
11	MTP-Development in MPLS technology	Andrew Coward	Juniper	Developments in MPLS technology and deployments [1/2 Day Tutorial]	Andrew Coward serves as the Vice President of Technical Operations, Asia Pacific for Juniper Networks. He is responsible for pre-sales and engineering support services to customers in Asia Pacific. Prior to Juniper, Andrew co-launched the Asia Pacific operations of Unisphere Networks in May 1999. He led a team of system engineers to provide dedicated pre-sales and architectural design services, and support to customers in the region. Andrew has been living in Asia Pacific for the past seven years, working with service providers in the region on IP access technologies, first with Bay Networks and later with Nortel, where he designed and planned some of the largest IP networks in Asia Pacific. Andrew started his career in government as an IP network engineer and progressed to role of Network Manager responsible for delivery of a 70-site United Kingdom wide network. Later, with Xplogica Ltd, he was responsible for delivery of the first dial Internet access networks in North Asia. Andrew is currently based in Tokyo.	MPLS Tutorial - 1 day Developments in MPLS technology and deployments The workshop is designed to provide a background, history, update and insight into the important developments with MPLS related protocols. Topics covered include a technology, implementations and case studies for the following: MPLS L2 & L3 VPNs MPLS Traffic Engineering GMPLS ATM & TDM migration Metros for Carrier interconnect, peering and billing The session is suitable for attendees interested in the actual implementation of MPLS services and how each service can be layered into
12	MTP-Network Security Steps to Secure Carrier	Wayne Chan	Juniper	Network Security: Essential steps to secure carrier scale networks [1/2 Day Tutorial]	Wayne Chan has more than six years experience in the networking and information technology. In the role as product manager in Asia Pacific for Juniper Networks, he is responsible for the industry-leading M and T series routing platforms. He also has hands-on skill in JUNOS operating system, and experience in network design	Explain and discuss the essential steps to secure the network infrastructure from various attacks with the underlying architecture and applications of a routing device in a carrier scale network.
13	MTP-Packet Voice Backbone Network Design	Matthew Kolon	Juniper	Packet Voice Backbone Network Design [1/2 Day Tutorial]	Matt Kolon is a Senior Solutions Manager for Juniper Networks, focusing particularly on VoIP and high availability. 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 frequent speaker at networking conferences and trade shows, including APRICOT, NANOG, CENIC, and SuperComm. Matt is co-author of two books, "IP Telephony (McGraw-Hill, 1999) and "Juniper Networks Routers: The Complete Reference" (McGraw-Hill, 2002), and has published a number of technical and non-technical articles in industry journals and elsewhere	It's a half day tutorial on BFD It is a new multivendor draft protocol that allows for the detection of forwarding path failures in extremely short times, and thereby improves enormously the convergence characteristics of standard IP routing protocols like ISIS and OSPF. BFD allows routing protocols to detect failures and begin repairs much faster than the de facto timers historically used by these protocols, but doesn't demand any changes to the protocols themselves. This presentation will introduce the concepts behind, operation of, and uses for the BFD protocol

NO	CODE	NAME	Title	Pa	Paper	COMPANY	TITLE OF TUTORIAL	BIODATA OF SPEAKER	ABSTRACT OF TUTORIAL
1	TTA.3G Data Networks - Design Issues & Case Studies	Simon Hewlett			0	Juniper	3G data network – design issues & case studies [1/2 Day Tutorial]		
2	TTA.Traffic Engineering Beyond MPLS	Arnan Meghrouteh				Cerdan Technologies	Matt Left MPLS: Practical Strategies for Traffic Engineering [1/2 Day Tutorial]		
3	TTF.802.11 Tech for Hotspots & WISPs	Matt Peterson				BAWUG	802.11 Tech for Hotspots & WISPs [Full Day Tutorial]		
4	TTF.Anti-Spam & Anti-Net Abuse	Suresh Ramasubramanian				APC/AUCE	Anti Spam & Anti Net Abuse [Full Day Tutorial]		
5	TTF.Beyond Fault Management & NOC	Jim Thompson				Cisco	Beyond Fault Management & NOC Implementing a NOC [Full Day Tutorial]		
6	TTF.Constructing Internet Exchanges	Bill Woodcock				Packet Clearing House	Constructing Internet Exchanges [Full Day Tutorial]		
7	TTF.Convergence of Data Network Tech to a Common Packet Backbone	David O'Leary				Juniper	Convergence of Data Network Tech to a Common Packet Backbone [Full Day Tutorial]		
8	TTA.APNIC Internet Resource Management Essentials	John King, Champika Wijayatunga & Nurul Fajri				APNIC	Internet Resource Management Essentials [1/2 Day Tutorial]		

NO	CODE	NAME	S	P	R	Paper	COMPANY	TITLE OF TUTORIAL	BIODATA OF SPEAKER	ABSTRACT OF TUTORIAL
10	TTP-AFPLD Technical Workshop	Chris Wright, Jeff Yan & Hirofumi Hotta					AFPLD	AFPLD Technical Workshop (1/2 Day Tutorial)		
11	TTP Introduction to IPv6	Jeff Doyle		0		Cannot submit paper on time	Juniper	Introduction to IPv6 (Full Day Tutorial)		
12	TTP Network Security The principles of Threats, Attacks, Intrusions	Ray Hunt					University of Canterbury	Network Security The principles of Threats, Attacks, Intrusions (Full Day Tutorial)		
13	TTP Introduction to SIP & VoIP Open Source	Kuran Sivis					Lanka Communications Services	Introduction to SIP & VoIP Open Source (1/2 Day Tutorial)		
14	TTP Next Steps in Broadband Services & Networks Designs	Robert Healey					Juniper	Next steps in broadband services and network designs (1/2 Day Tutorial)		

MULTILINGUAL INTERNET NAMES CONSORTIUM

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About MINC | Membership | Publicity | Meetings | Working Group | Mailing Lists | Documents | Related Sites | Contact MINC

MINC IDN 2004 Conference at APRICOT 2004
Kuala Lumpur, Malaysia, 25 February 2004 (Day 1 of APRICOT conference)

Date: 1100-1730h 25 Feb 2004 MINC-APRICOT IDN 2004 Conference (open to all registrants of APRICOT 2004)
Venue: Palace of the Golden Horses, Kuala Lumpur, Malaysia
This hotel is a world class luxury resort and conference centre with stunning Malaysian-Moorish architecture overlooking a magnificent 150 acre lake at the Mines Resort City in Kuala Lumpur.
http://www.apricot2004.net/venue.asp

- Call For Participation and Draft Program
- APRICOT 2004 Conference Website
- APRICOT 2004 Technical Conference Program - MINC IDN Track 1100-1730h 25 Feb 2004
- **Registration**
  APRICOT Registration Fees: As this is an APRICOT-MINC joint effort, participants to this conference are to register with APRICOT.
  Early Bird US$190 by 15 January 2004. Regular Fees US$150 (See APRICOT Registration).
- Registered Participants (to be updated)
- MINC IDN 2004 Carthage Meeting Report | html | (after the conference)
- MINC Kuala Lumpur Declaration | html | doc | (after the conference)
- Report on MINC Carthage IDN/ML UDRP Initiative | html | doc | (after the conference)
- Report on MINC Carthage IDN/ML-IETF Coordination Initiative | html | doc | (after the conference)

Papers and Presentations

- 1100h Opening Speech and Welcome - Local Organising Committee **Tan Tin Wee** and **Bilal Kisswani**
- **Session 1: Basic primer on IDN RFCs and IDN Interoperability**
- 1110h **MINC Introduction - Khaled Fattal**
  - **BioData:** Khaled Fattal is the Current Chairman of MINC. He is CEO, International Business Enterprises Limited. United Kingdom;.President: Waqalat arbitration Centre. Online and off line domain name dispute resolution centre. New Delhi, India.
  - **Abstract:** Ever since its founding, MINC has been actively promoting IDN and Multilingual keywords worldwide. Its efforts have led to a heightened awareness amongst many organisations and individuals on the need for an internationalised solution to domain names. It has also pioneered Interoperability testing and testbed operations and played key roles in helping and coordinating language groups using the following scripts: Arabic, Tamil, Cyrillic, Han characters, etc . This brief introduction to MINC will cover the aims and objectives of MINC, its achievements and its future initiatives.
  - PPT Introducing MINC (ready)

- 1130h **MINC IDN Interoperability Testing - Bill Manning and presented by Milton Choo**
  - **BioData: Bill Manning** is founder of EP.Net LLC. He is also staff of the HPCC Division, ISI and Project Manager, Routing Arbiter, USC/ ISI based in Marina del Rey, CA, USA. EP.NET, LLC. provides a variety of services to the Internet community. These include publication of Internet exchange facilities worldwide, links to supporting organizations, documentation on exchange creation and operation, and statistical information. EP.NET LLC. also offers consulting and support services and unique identifier management for neutral exchange point operations. These identifiers may include ASN's, IPv4 and IPv6 prefixes, and VPI/VCI assignment.
    Milton Choo is the founder of Borq.net.
  - **Abstract:** The essentials of the MINC Interoperability Testbed is described and outlined. The objectives will be clarified, and the operational processes and procedures will be discussed.
  - PPT (not ready)

- 1200h **MINC, WSIS and ITU's Internet Governance and its impact on IDN Deployment** - Discussion Session chaired by **K Fattal and T.W. Tan**
  - **BioData: T.W. Tan** is the earliest implementor of IDN solutions using the earliest precursor of ACE (UTF5) and a proxy IDN server method of intercepting and converting multilingual script into DNS compatible form for resolution of IDNs. Unknown to many, he has always been concurrently a professor in the Biochemistry Dept of the National University of Singapore specialising in Bioinformatics. He has been involved with many Internet organisations such as APNG, APTLD, WWTLD, CCIRN, APRICOT, APNIC, APAN, APBioNet, INFITT, MINC, etc in the past 10 years.
  - **Abstract:** This discussion will include the latest update on the initiatives on Internet Governance in WSIS and ITU, and will reflect on the impact now and the future on IDN deployment and implementation vis-a-vis the reform process going on in ICANN.
  - PPT Summary of Discussion (not ready until after the conference)

- 1230h **LUNCH**
- **Session 2 IDN implementation and roll out in different gTLDs and ccTLDs, Language and Scripts.**
- 1400h **IDN Deployment: DNS Applications, WHOIS, & Other Services - Edmon Chung, Neteka(Afilias)**
  - **BioData:** I originally founded Neteka which was a pioneer in the development and deployment of IDN (Internationalized Domain Names) technologies. When Afilias Ltd., acquired the assets of Neteka earlier this year, I joined the Afilias team. As you may be aware, Afilias runs the backend registry system for .ORG and .INFO, and we also provide technologies to 11 ccTLDs around the world. Personally, I also gave a couple of presentations on IDN and EPP respectively during APRICOT 2003 in Taipei.
  - **Abstract:** After three years of contentious debate, the IETF have finally found consensus to publish a set of RFCs regarding the Internationalization of domain names in the spring of 2003. Upon this and a complementing IESG statement, ICANN have also published an IDN guidelines for TLD registries around the world, of which a handful of registries have already signed on to. All these pave a clear path towards global deployment of IDN by registries... Or do they? The establishment of the standards and relevant documents is only the beginning of the challenges to the deployment of IDN. In fact, in the IESG statement, it is also clearly explained that the set of IDN RFCs do not provide all that is neccessary to make IDN deployment successful. This presentation will explore the IDN challenges and discuss the industry experiences in the following areas:

- DNS Applications (e.g. Browsers)
- WHOIS
- Registration Systems
- Other Services (e.g. Email, Digital Certificates, Network tools, etc.)
  ○ PPT IDN implementation (ready)

- 1430h **IDN Deployment in ML.ML and ML.ascii - HuiMin Lim, i-DNS.net International Inc**

  ○ **BioData:** Lim Huimin is Vice President (technology) of i-DNS.net
  ○ **Abstract:** i-DNS.net is the pioneer of IDNs in ML.ML and ML.ascii, as well as IDN email, since early research in 1997/8 and commercial deployment in 1999. An overview of our own experience in deployment as well as those by others worldwide since the very beginning is presented.
  ○ PPT IDN Deployment in ML.ML and ML.ascii (ready)

- 1500h **Discussion on Language vs Script computing problems: Arabic as an example- Bilal Kisswani, TAGI** and Charles Shaban and Khaled Fattal

  ○ **BioData:**Bilal Kisswani is is the Internet Officer of the regional office of Abu-Ghazaleh Intellectual Property (AGIP), member of Talal Abu-Ghazaleh Organization (TAGO). He is a member of the Digital Office Committee (DOC) of the group. Chairman Talal Abu-Ghazaleh formed DOC with the specific mission to fully digitize the operations of the different TAGO companies. Bilal is responsible for Internet connectivity and security of TAGO network. Mr. Kisswani has 5 years experience in Internet networking and applications as he was working in a local ISP in Jordan as a Network engineer. Mr. Kisswani holds a Bachelor degree in computer engineering from Yarmouk University, Irbid-Jordan. He is responsible for managing the MINC website and the new Secretariat.
  ○ **Abstract:**MINC AL WG aims to co-ordinate efforts to develop and deploy Arabic Internet name system and applications. Providing users with the capability of using Arabic language and its standard character set to write domain names in Arabic and navigate the Internet, the WG has come a long way. In this paper, the progress will be reviewed, especially focussing on Arabic language specific issues, the nature of the Arabic script and the linguistic issues impacting IDN..
  ○ PPT Arabic Language and Script computing problems (ready)
  ○ PPT Latest Efforts on Arabic Internet (ready)

- 1530h TeaBreak

- **Session 3 IDN-enabled applications and IDN Email Addresses**
- 1600h **IDN and Native Language Internet Address service - Taeha Park, Netpia**

  ○ **BioData:** Taeha Park received Ph.D degrees in computer science from KAIST in addition to BS degree in computer engineering from Seoul National University. He worked at Inet Inc and PSINet Korea as CTO for 8 years, where he designed and deployed large scale Internet backbone and services. He joined Netpia in 2003 as CTO. He worked on network systems including network operation of the first internationally connected Internet in Korea, called Hana network in 1990, at computer center of KAIST. He established KRNIC in 1993 with Prof. Kilnam Chon and operated KRNIC until the task was migrated to NCA in 1994.
  ○ **Abstract:** Netpia provides NLIA (Native Language Internet Address) services since 1997, and the service is being expanded to many countries. The service has been most successful with 20 million queries a day in Korea. The status of keyword service and IDN service in Korea will be described in this presentation, and its Global Architecture and its value-added applications will be introduced.
  ○ PPT IDN and Native Language Internet Address service (ready) (Huge 11 Mbytes)

- 1630h **MINC Initiatives:** WSIS, ITU and UN processes on Internet Governance and its impact on IDN Deployment. Discussion chaired by **Khaled Fattal and T.W. Tan**

  ○ PPT MINC Commissions

- 1700h MINC IDN Conference 2004 closing remarks

Remote VideoConferencing Participants

- MINC IDN Conference 2004 Wed 11-5pm 25 Feb Kuala Lumpur
- For those who are unable to attend the MINC IDN Conference, we are trying to arrange an online web audioconferencing at 11am Wednesday +800h GMT in Kuala Lumpur to 6pm for our MINC IDN 2004 conference.
- As it is 11am in KL, it should be 05:00:00 Wed Feb 25 2004 in Asia/Amman 12nn on Wednesday in Tokyo 7pm in California on Tuesday 22:00:00 Tue Feb 24 2004 in America/New_York 06:00:00 Wed Feb 25 2004 in Europe/Moscow
- To attend the meeting, please register with me. tinwee@bic.nus.edu.sg There is a limit to the number of participants.
- If your registration is successful, you will be invited into the session and you have simply to click on the following URL for example http://emeet.nus.edu.sg/main/User/GuestAttend.jhtml?s_guid=0000019299f5000000facc9ffdb28734 and key in your email address, the one you registered with, and it should get into the audioconference.
- You have log into this teleconferencing system using a Windows Internet Explorer web browser. For full audio reception, your computer should have a speaker. If you wish to participate, it is compulsory for you to have a headset microphone-earpiece to prevent a feedback loop which will destroy the teleconferencing quality of every one else.. You will be able to see the ppt presentations and hear the audio.
- When you click on the above URL, you will be brought to the online teleconferencing system, and your Microsoft IE web browser will download an applet. It will control your audio reception and teleconferencing system. If you don't have microphone, you can lurk in listen mode with your speaker switched on but mute your microphone please. There is a text chat mode, which you can familiarise yourself by visiting the teleconferencing room right now by clicking on the URL below.
- Note that this technology claims it can work with a 56kbps dialup link. Any one care to test it?
- Present at the venue in Kuala Lumpur APRICOT 2004 will be Bilal Kisswani and Khaled Fattal, and hopefully myself Tin Wee.
- To ensure you have the correct time at your location: please use http://www.timezoneconverter.com/ to ascertain when 11am to 5pm Kuala Lumpur time is at your place.

First Created: 22 Nov 2003; Last Updated: 24 Feb; 10 Jan 04 ttw

APSIRC 2004

Wed. 25 Feb. 2004

APCERT Open Session
(held as an APRICOT2004 Conference Track)

Room: Auditorium

8:30-9:00   Registration

9:00-10:30   APRICOT Plenary
              Prof. Suguru Yamaguchi , NAIST

10:30-11:00   Break

11:00-12:30   Session (1) - CSIRT, Incident Response, and APCERT
              This session starts with a brief introduction of CSIRTs and the relation to APCERT. The CSIR Team members in AP will share their experience of handling incidents such as Dvldr32, Blaster, and Nachi worms. The methodology of detecting a new worm, such as by traffic monitoring and filtering to control the spreading of worms, will be discussed. The presentation also includes how they assisted their constituencies in combating and curbing the major incidents in 2003 and the effective preventive measures against such incidents that can be used in the future.

    11:00-11:20 Welcome Greeting

        YBhg. Datuk Dr. Halim bin Shafie
          Secretary General, Ministry of Energy, Communications and Multimedia (MECM), Malaysia

    11:20-11:40 [Case Study: Internet Worms of 2003 and CCERT Response]

        Haixin Duan, CCERT, CN   [Summary | Presentation (ppt, 1,051KB)]

    11:40-12:00 [Analysis and Trend of Security Crimes in Taiwan]

        Chia-Mei Chen, TWCERT   [Summary | Presentation (ppt, 150KB)]

    12:00-12:20 [Case Study: Incidents of this Year - MyCERT Experience]

        Solahuddin Shamsuddin, MyCERT, MY   [Summary | Presentation (ppt, 611KB) revised]

    12:20-12:40 [The Optus Hack]

        Graham Ingram, AusCERT   [Summary | Presentation]

12:30-14:00   Lunch

14:00-15:30   Session (2) - [Updating the CSIRT Projects and Technologies]
              Detecting a computer incident in its early stage is critical in preventing or minimizing the damage caused by the incident. The real time scan detector and scan data acquisition system are some of the ways to combat computer attacks which are becoming increasingly sophisticated.In this session, the speakers will present their projects about handling computer security incidents and discuss about the problems in monitoring and analyzing the data as well as the policy for implementing the projects

    14:00-14:20 [A Taxonomy of Network and Computer Attack Methodologies]

        Ray Hunt, University of Canterbury   [Summary | Presentation (ppt, 347KB) Presentation (PDF, 467KB)]

    14:20-14:40 [Sharing Information of Traffic Monitoring (1)]

        Jungu Kang, CERTCC-KR   [Summary | Presentation (PDF, 3.78MB) revised]

        Yurie Ito, JPCERT/CC   [Presentation (ppt, 335KB) revised]

    14:40-15:00 [Identifying Pervasive Malicious Activity: The CERT/CC Approach]

        Roman Danyliw, CERT/CC   [Summary | Presentation (PDF, 246KB)]

    15:00-15:20 [Analysis on IDS evaluation using a quantitative assessment approach]

        Hatim Mohamad Tahir, Univertsiti Utara, MY   [Summary | Presentation (ppt, 864KB)]

15:30-16:00   Break

16:00-17:30   Session (3) - [Cooperation Model among Multiple Sectors: CERT Bridging between Governments, Industry, Law Enforcement, and Academia]
              Global coordination and collaboration as well as cross sector coordination are vital in handling security incidents. The presenters in this session are not only from Asia Pacific region, but also from the Americas and Europe, who also represent the network providers, governments as well as security related vendors. They will introduce their models, address the benefits and issues, and seek a way of improving the current situation to close a gap among the multiple players in the security arena in order to improve the efficiency and effectiveness in responding to the computer incidents.

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16:00-16:30 [CERT - An Ideal Organization]

        Mohammad Sabzwari, CERT PK   [Summary | Presentation (ppt. 287KB)]

16:30-17:00 [Security and Incident Response - Strategy and Initiatives]

        Meng-Chow Kang, Microsoft   [Summary · Presentation (ppt. 4 1MB)]

17:00-17:30 [Cooperation models and compelling issues amongst participating parties]

        Aisah Zainab Mahmud, Jagat Technology, MY   [Summary | Presentation (ppt. 157KB)]

17:30-18:00   Break

18:00-19:00   APNIC/APCERT Whois Database BoF   (Room:Unity 2)

In this BoF, the participants will discuss the use of the IRT object
in the whois database.   [Meeting Minutes]

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APRICOT 2004
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VoIP Program
(held as an APRICOT 2004 Conference Track)
25 Feb 2004, Kuala Lumpur, Malaysia

- HOSTS
- VENUE
- PROGRAM
- CALL FOR PAPERS
- FELLOWSHIP
- ABOUT APRICOT
- PAST APRICOTS
- ABOUT MALAYSIA
- ENTERING MALAYSIA

- TRANSPORTATION
- ACCOMMODATIONS
- SIGHT-SEEING
- SITEMAP

APNIC 17

APNIC

9:00 - 10:30 - Plenary Session

10:30 - 11:00 - Break

11:00 - 12:30 - Core VoIP Technology

Ran Atkinson, Extreme Networks, "Application of IP DiffServ and Ethernet QoS (802.1p) to VoIP networks"

Balan Sinniah, KDU College SDN BHD, "Distributed Echo Cancellation for Multimedia Conferencing System"

Dr. Fu Cheng Peng, Frankli "VMCC: Veno-based Multicast Congestion Control over Hybrid Wired/Wireless Networks"

12:30 - 14:00 - Lunch

14:00 - 15:30 - Deployment Experiences

Tim Youm, Nortel Networks, "Integrating next generation multimedia services to existing telephones."

Bill Woodcock, Packet Clearing House, "INOC-DBA - Increased expectations and deployment"

Joe Abley, Internet Software Consortium, "Experiences with a Distributed SIP-Based PBX at ISC"

15:30 - 16:00 - Break

16:00 - 17:30 - Deployment and Operational Issues

Aarti Ananth, Motorola Consultant "VoIP Technology Mix – Which one fits where"

Sachin Natu, Redback Network "Strategies to deliver real time services like VoIP over Broadband"

Neil Dimalanta Quiogue, Telic.net, "Operational Issues and Challenges in VoIP"

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APRICOT 2004
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⇒ SITEMAP

APNIC 17
APNIC

Internet Routing and Backbone Operations Program
(held as an APRICOT 2004 Conference Track)
25 & 26 Feb 2004, Kuala Lumpur, Malaysia

Day 1 (25 Feb 2004)

11.00am - 12.30pm: Wireless Networking

11.00 - 11.45am: Danny Ng, Nortel Networks - Ad Hoc Networking with Wireless Mesh Technology
11.45 - 12.30pm: Simon Newstead, Juniper Networks - WiFi hotspot control architectures

2.00 - 3.30pm: Traffic Engineering

2.00 - 2.30pm: Arman Maghbouleh, Cariden Technologies - Metric-Based Traffic Engineering: Panacea or Snake Oil? A Real-World Study
2.30 - 3.00pm: John Evans, Cisco - Fast IGP Convergence in SP Backbone
3.00 - 3.30pm: Matthew Kolon, Juniper Networks - Bidirectional Forwarding Detection

4.00 - 5.30pm: Routing Technologies and Techniques

4.00 - 4.30pm: Danny McPherson, Arbor Networks - BGP: Good MEDs Gone Bad
4.30 - 5.00pm: Hong-Wei Kong, Agilent China - Verification of Zebra as a BGP instrument
5.00 - 5.30pm: Mark Williams, Juniper Networks -Recent developements in Multicast technologies for Media distribution

Day 2 (26 Feb 2004)

9.00 - 10.30am: Services on IP Networks (L2 and L3 VPNs)

9.00 - 9.45am: Andy Malis, Tellabs - Layer 2 (ATM and FR) transport over MPLS networks
9.45 - 10.30am: Kireeti Kompella, Juniper Networks - Virtual Private LAN Services

11.00am - 12.30pm: Services on IP networks (continued)

11.00 - 11.30am: Yogesh Jiandani, Cisco - InterAS MPLS VPN Overview
11.30am - 12.00pm: Ray Irani, Cisco - Building Next Generation Networks Using IP/L2TPv3 VPN Technology
12.00 - 12.30pm: Rajiv Asati, Cisco - Carrier Supporting carriers

2.00 - 3.30pm: Routing Experiences, operations and guiding principles

2.00 - 2.30pm: Robert Rockwell, Sprint - Tier 1 ISP routing architecture and principles
2.30 - 3.00pm: Donald Troshynski, Avici - Techniques and Protocols for Improving Network Availbility
3.00 - 3.30pm: Vinai Sirkay, Reliance Infocomm - The Dos and Don'ts of designing a large Metropolitan Area Network

4.00 - 5.30pm: Panel Discussion (IP QoS and its Impact on Scalability)

Panelists:
Arun Rajagopal, Reliance Infocomm
Robert Rockwell, Sprint
Travis O'Hara, Juniper Networks

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APCAUCE Anti-Spam & Net Abuse Conference Program
(held as an APRICOT 2004 Conference Track)
26 Feb 2004, Kuala Lumpur, Malaysia

Program

9.00 - 10.30am Session 1. Keynote Speech - Dave Crocker, Brandenburg Internetworking (Introduced by James Lick, tcp.com / APCAUCE chair)

10.30 - 11.00am Break

11.00am - 12.30pm Session 2. Panel Discussion on DNS Blocklists and Asian ISPs
Moderator: Suresh Ramasubramanian, Outblaze Ltd / APCAUCE Coordinator)
Richard DG Cox, Spamhouse.Org
Syahrul Sazli, Jaring, MY

12.30 - 2.00pm Lunch

2.00 - 4.00pm Session 3. Regional Updates on Spam
Chair: Josh Rowe, AusPost Australia, APCAUCE Deputy Chair
MY - Shamsul Jafni Shafie, Malaysian Communications and Multimedia Commission
CN - Yu Xiao Li, Internet Society of China
NZ - David Harris, InternetNZ
SG - James Seng, InfoComm Development Authority of Singapore
USA - James Lick, tcp.com / Chair APCAUCE
AU - Andrew Maurer, National Office of the Information Economy
TW - Arthur Shay, Shay & Partners
KR - Jeonghye Choi, Internet Association of Korea / APCAUCE Secretariat
TH - Abhisak Chulya, IA Thai

4.00 - 4.30pm Break

4.30 - 5.30pm Session 4. Panel Discussion on RMX Records
Moderator: James Seng, Infocomm Development Authority of Singapore
Dave Crocker, Brandenburg Internetworking
Meng Weng Wong

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2nd IPv6 Summit in Asia Pacific (held as an APRICOT 2004 conference session)

26 Feb 2004
Kuala Lumpur, Malaysia

This track serves as a continuation to the initial Global IPv6 Summit in AP, staged parallel to APRICOT 2003 in Taipei. It also marks the establishment of the Asia Pacific IPv6 Task Force (APIPv6TF), a regional task force currently made up of national IPv6 promotional and research groups from nine AP economies.

Sessions will provide a snapshot of IPv6 network services and application developments across the AP region. The track will culminate with a look toward the expected impact of IPv6 on Asian industry.

Program

9:00   Opening Remarks

     Dr. Mohamed Awang Lah, CEO, Jaring, Malaysia

   Asia Pacific IPv6 Task Force (APIPv6TF) Introduction

     Takashi Arano, IPv6 Promotion Council of Japan

       Presentation [ppt, 55KB]

9:20   Keynote Panel: APIPv6TF Advisory Board Panel Session

This panel brings together the founders and leaders of regions major national IPv6 promotional organizations to discuss the establishment of the Asia Pacific IPv6 Task Force (APIPv6TF) and its role in the of a regional IPv6 organization, strategy, collaboration and vision.

Panel Coordinator:

     Jun Murai, President, IPv6 Promotion Council of Japan

Panelists:

     Vincent WS Chen, Executive Secretariat, IPv6 Steering Committee
       NICI (National Information and Communication Initiative), Taiwan
         Presentation [ppt, 891KB]

     Mohamed Awang Lah, CEO, Jaring, Malaysia
         Presentation [ppt, 1,002KB]

     James Seng, Assistant Director, Enabler Technologies
       Technology Group, Infocomm Development Authority (IDA) of Singapore

Reference:

     Liu Dong, Chairman, China IPv6 Council
         Reference File [ppt, 1,307KB]

10:30   Break

11:00   Session I: Network

20 min. presentations on IPv6 Network developments, trials and strategies from around the region.

IPv6 Activities and Deployment Strategy in KT

     HyoungSoo Kim, Next Generation Internet Division
       Technology Lab, Korea Telecom, Korea
         Presentation [ppt, 1,307KB]

My6 Initiatives

     Parimalam Krishnamurthy, Assistant Manager, NEO
       Maxis Communications, Malaysia
         Presentation [ppt, 2.59MB]

MyREN Status Update

     Dr. Sureswaran Ramadess, University of Science Malaysia (USM), Malaysia
         Presentation [ppt, 358KB] revised

HiNet's IPv6 Trial Network

     Hong-Ren Lo, Network Engineer, Internet Services Department
       Data Communication Business Group, Chunghwa Telecom, Taiwan
         Presentation [pdf, 8.13MB]

KDDI's ADSL IPv6 Trial

     Toru Maruta, Manager, IPv6 Network Development Section,
       IP Network Department, KDDI Corporation, Japan
         Presentation [pdf, 646KB]

12:30   Lunch

14:00   Session II: Applications

20 min. presentations on the latest IPv6 applications from varied fields and economies.

NEC's IPv6 Solutions

     Keiichi Imai, Group Manager, Business Development, NEC Corporation,Japan
         Presentation [ppt, 2.54MB] revised

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IPv6 Application Showroom for Business

Jaeho Lee, Senior Researcher, NCA (National Computerization Agency),
Korea

Presentation [ppt, 10 8MB]

IPv6 Video Conferencing Tools

Gopinath Rao Sinniah, Lecturer, Faculty of Engineering and Computer
Technology
Asian Institute of Medicine Science and Technology

Presentation [ppt, 1,287KB]

Perspective of IPv6 Applications in Taiwan 2004 (Tentative Title)

Han-Chieh Chao, Deputy Director, IPv6 R&D Division
NICI (National Information and Communication Initiative), Taiwan

Presentation [pdf, 3 44MB]

Reference

Samsung's IPv6 Digital World

Pyungsoo Kim Ph.D , Senior Researcher, Mobile Platform Lab
Digital Media R&D Center, Samsung Electronics, Korea

Presentation [pdf, 1,143KB]

15:30 Break

16 20 Session II: Applications (cont.)

20 min. presentations on the latest IPv6 applications from varied fields and
economies.

Micronode Applications

Masahiro Ibaragi, Micronode Group, Network Development Center
Yokogawa Electric Corporation, Japan

Presentation [pdf, 3 77MB]

16:40 Session III: Panel: Asian Industry and IPv6

IPv6 can connect not only computers but also all "objects" with each other in a
seamless way. By utilizing new networked "objects" and information retrieved from
these objects, new applications and new services will be developed to change
business and human processes in various industries such as automobile, home
electronics, medicine, agriculture, etc.

In this sense, one assumption of this panel is that IPv6 is one of the key items to
strengthen Asian economy and industries. The panel will discuss future perspectives
about how and in what industrial areas we can utilize IPv6.

Panel Coordinator

Kazuhiko Yamamoto, Internet Initiative Japan, Inc./WIDE Project

Panel Outline [pdf, 3 75KB]

Panelists

Han-Chieh Chao, Deputy Director, IPv6 R&D Division
NICI (National Information and Communication Initiative), Taiwan

Presentation [ppt, 450KB]

Masahiro Ibaragi, Micronode Group, Network Development Center
Yokogawa Electric Corporation, Japan

Jaeho Lee, Senior Researcher, NCA (National Computerization Agency),
Korea

Presentation [ppt, 5 86MB]

Hiroaki Sadata, IPv6 Promotion Council, Japan

Presentation [ppt, 798KB]

Norehan Yahya, General Manager, Network Architecture and Development
Maxis Communications, Malaysia

17:30 Closing

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Asia Pacific Peering Program
(held as an APRICOT 2004 Conference Track)
26 Feb 2004, Kuala Lumpur, Malaysia

9:00 - 10:30am: Track Opening: Introduction to the Internet Peering Ecosystem - The Evolution of the U.S. Peering Ecosystem

During the last few years there have been major disruptions in the U.S. Peering Ecosystem, leading to a new system of interconnections rising from the ashes. Recent research has identified several groups of operators, some survivors and some emerging players, each with similar motivations and observed behaviors. This presentation presents a nomenclature and lexicon to illustrate this evolution in the U.S., and also as a method to describe and understand the Asia Pacific Peering Ecosystem.

Track Chair: William B. Norton (Co-Founder and Chief Technical Liaison, Equinix, Inc.)

11:00-12:30 International Asia Pacific Peering
In this panel we will explore some of the challenges Peering Coordinators face as they build Internet infrastructure into and between Asia Pacific countries.

Nigel Titley - Commerical Peering Manager, FLAG
Erasmus Ng - Peering Coordinator, T-Systems
Twicky Cheung - Peering Coordinator, Asia Netcom

2:00-3:30 Regional Asia Pacific Peering
In this panel we continue the exploration of AP Peering but migrating from a regional to an in-country focus.

Akinori Maemura - Peering Coordinator, France Telecom: Peering Across Asia
James Spenceley - Peering Manager, Comindico: Peering in Australia
Tom Vest - Consultant: Peering in China

4:00-5:30 Exploration of Peering from the Content Provider Perspective

Brokaw Price - Peering Coordinator, Yahoo!: Peering from a Content Provider Perspective across Asia
Christian Nielson - Peering Coordinator, Microsoft/MSN: Peering into Asia
Sharad Sanghi - CEO, NetMagic Solutions: Peer Ecosystem Evolution in India

5:30-6:15 Peering Coordinator Social

build contacts, exchange cards, start peering across Asia discussions.