



>>> BKNIX PEERING FORUM <<<
& ThaiNOG Day

BPF 2023

**Summary Report of
BKNIX Peering Forum 2023**

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The THNIC Foundation and BKNIX Co., Ltd. annually host the BKNIX Peering Forum to update participants from the Internet Exchange industry on related knowledge, technologies and trends. The BPF2023 also serves as a premier platform for Internet industry managers and engineers to exchange knowledge and foster business opportunities for Internet connectivity and Content service providers.

Moreover, this year's forum, BKNIX Peering Forum 2023 (BPF 2023) marks a significant milestone for BKNIX as they unveil the opening of the sixth location for their internet exchange service point (PoP). This expansion aims to enhance the diversity and stability of Internet services throughout Thailand.

The event also spotlighted a wide range of compelling topics from distinguished Thai and international experts related to Internet Technology, Software defined networks, Last-mile access connectivity, DNS, Internet Measurement, IXP Peering as well as Data Center Market in Thailand. Moreover, The event held panel discussion on the topic "Building the Foundation for Thailand to Become the Digital Hub of Southeast Asia" to gather ideas and experiences not only from panelist in the industry but also all participants as a whole.

The participants at the BPF2023 consist of a wide range of entities, including Internet Service Providers (ISPs), Content Delivery Network Providers (CDNs), Internet Data Center Providers (IDCs), Carriers, Exchange Center Providers (IXPs) and other relevant service providers. Representing 16 countries, attendees came from Thailand and abroad, including Australia, Cambodia, China, France, Germany, Hong Kong, Indonesia, Japan, South Korea, Laos, Malaysia, Myanmar, New Zealand, Pakistan, Singapore, Thailand and the United States. There were 336 on-site participants joining at Carlton Hotel Bangkok Sukhumvit, Thailand, and 368 participants joining online at their respective locations.

Presentation Topics

The keynote speaker, presenters and panel discussions provided informative and interesting sessions during the BPF 2023.

1. Welcome Speech and Opening Remark

By Dr. Gothom Arya, Chairman of THNICF



2. Session 1: Keynote

- A Close Look at Remote Peering

By Dr. Marinho Barcellos, University of Waikato



3. Privilege Presentation

- Quick wins in the NetOps journey

By Mr. Vincent Boon, Sales Engineer - APAC Opendgear



- What are the new data center trends in Thailand for 2023?

By Mr. Pierre Patris, CEO Asia - ETIX Everywhere



4. Session 2: Connectivity

● Last Mile Connectivity: Addressing the Affordability Frontier

By Mr. Jonathan Brewer, Consulting Engineer - Telco2 Limited



● Connecting Last Mile ISPs to Internet Exchange Points: BKNIX Case Study

By Mr. Kittinan Sriprasert, Technical Manager - BKNIX

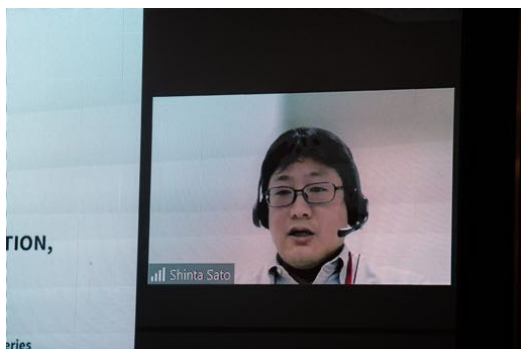


5. Peering personal

- AIMS Data Centre
- Amazon Web Services
- AMS-IX
- BBIX
- BKNIX
- DE-CIX Asia
- iAIX
- JPIX
- JPNAP
- NTT Global Data Centers
- OneAsia Data Center (Thailand)
- RouteViews
- SUNeVision / iAdvantage
- ST Telemedia Global Data Centres (Thailand)
- SYMPHONY COMMUNICATION
- True Money

6. Session 3: Content & Peering / Technology

- M-Root DNS update : After 6 months deployment
By Mr. Shinta Sato, JPRS



- APNIC Measurement
By Mr. Wita Laksono, Senior Internet Resource Analyst, APNIC



- The SEA-5 – Spotlight on Thailand’s Data Center Market
By Ms. Vivian Wong, DC BYTE



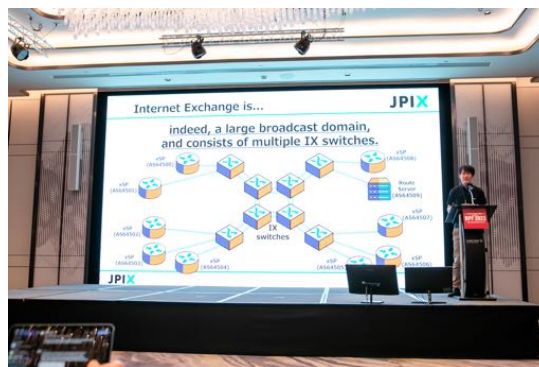
- **Software Defined eXchange Controller for IXPs**

By Mr. Shicong Zhang, NNIX



- **To maintain IX network clean and stable**

By Mr. Masataka Mawatari, JPIX



7. Session 4: Panel Discussion

“Building the Foundation for Thailand to Become the Digital Hub of Southeast Asia”

Moderator:

Dr. Jesada Sivaraks,

Board of Director and Secretary - THNIC Foundation

Panelist:

- Mr. Ekachai Phakdurong,

Chief Strategy Officer - Thaicom Public Company Limited

- Mr. Pichit Satapattayanont,

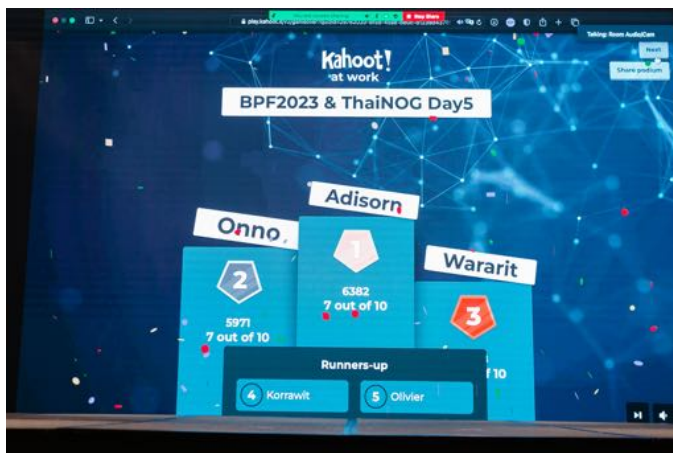
Chief Executive Officer - International Gateway

- Mr. Kempei Fukuda,

Vice President, Services Grand Design - NTT LTD



8. BPF Quiz



9. Peering Meeting

The event brought together managers, engineers and business decision-makers from both local and international ISPs, IXPs and Interconnection Service Providers for two days of meetings presentations and networking events, thus, providing great opportunities for those who make peering and interconnection decisions for their network.



Sponsors

The Thai Network Information Center Foundation and BKNIX Co., Ltd. wishes to thank sponsors who contributed to the BKNIX Peering Forum 2023 and made the event successful.

Platinum Sponsor:



Titanium Sponsor:



Gold Sponsor:



TCC TECHNOLOGY GROUP



NETFLIX



Network Sponsor:



Silver Sponsor:



In-Kind Sponsor:



Fellowship Sponsor:



Participants

The participants at the BPF2023 comprised a wide range of entities, including Internet Service Providers (ISPs), Content Delivery Network Providers (CDNs), Internet Data Center Providers (IDCs), Carriers, Exchange Center Providers (IXPs) and other relevant service providers as shown below;

On-site participants	Number of participants
Australia	5
Cambodia	4
China	1
France	2
Germany	2
Hong Kong	2
Indonesia	3
Japan	13
South Korea	3
Laos	2
Malaysia	1
Myanmar	2
New Zealand	1
Pakistan	1
Singapore	18
Thailand	272
United States	2
Other	2
TOTAL	336

Online participants	Number of participants
TOTAL	368

Sponsor Fellowship

The BKNIX Fellowship program aims to provide an opportunity for Network Engineers and Security or Network Officers from Southeast Asia to broaden their IXP network knowledge. DotAsia and ISOC supported 15 participants from Cambodia, Laos, Myanmar and Thailand. With this fellowship programme, they were able to attend both BPF2023 and the post-event workshop, “BGP Deployment Workshop”, on 17 - 19 May 2023.

No.	Name	Surname	Country
1	Thaw Zin	Soe	Myanmar
2	Mok	Vira	Cambodia
3	Seyma	Nget	Cambodia
4	Khamsaone	Jouramany	Lao PDR
5	Sotsay	Sengvong	Lao PDR
6	Sasirat	Chansirikiat	Thailand
7	Nawin	Thammaragsa	Thailand
8	Thanawit	Atikitchinnawut	Thailand
9	Suppanut	Sanguansat	Thailand
10	Sakkanart	Udomdirekrirk	Thailand
11	Sakkarach	Sanloha	Thailand
12	Prakit	Intharak	Thailand
13	Kritsanut	Touchwatcharamongkol	Thailand
14	Withawat	Tangtrongpairroj	Thailand
15	Chokanun	Phansavang	Thailand



Appendix A

Agenda 15–16 May 2023 Carlton Grand Ballroom (9th Floor)

09.30 - 10.00	Registration
10.00 – 10.10	Welcome Speech and Opening Remark <ul style="list-style-type: none"> - Dr. Gothom Arya, THNICF Group Photo Session Present token of appreciation to all sponsors
10.10 – 10.30	Privilege Presentation Quick wins in the NetOps journey <ul style="list-style-type: none"> - By Mr. Vincent Boon, APAC Opengear What are the new data center trends in Thailand for 2023? <ul style="list-style-type: none"> - By Mr. Pierre Patris, ETIX Everywhere
10.30 – 11.30	Session 1: Keynote A Close Look at Remote Peering <ul style="list-style-type: none"> - Dr. Marinho Barcellos, University of Waikato
11.30 – 12.20	Session 2 : Connectivity Last Mile Connectivity: Addressing the Affordability Frontier <ul style="list-style-type: none"> - Mr. Jonathan Brewer, Telco2 Limited Connecting Last Mile ISPs to Internet Exchange Points: BKNIX Case Study <ul style="list-style-type: none"> - Mr. Kittinan Sriprasert, BKNIX
12.20 – 12.30	Peering Personal <ul style="list-style-type: none"> - AIMS Data Centre - Amazon Web Services - AMS-IX - BBIX - BKNIX - DE-CIX Asia - iAIX - JPIX - JPNAP - NTT Global Data Centers - OneAsia Data Center (Thailand) - RouteViews - SUNeVision / iAdvantage - ST Telemedia Global Data Centres (Thailand) - SYMPHONY COMMUNICATION - True Money

12.30 – 13.30	Network Lunch
13.30 – 15.00	<p>Session 3: Content & Peering / Technology</p> <p>M-Root DNS update : After 6 months deployment</p> <ul style="list-style-type: none"> - Mr. Shinta Sato, JPRS <p>APNIC Measurement</p> <ul style="list-style-type: none"> - Mr. Wita Laksono, APNIC <p>The SEA-5 – Spotlight on Thailand’s Data Center Market</p> <ul style="list-style-type: none"> - Ms. Vivian Wong, DC BYTE <p>Software Defined eXchange Controller for IXPs</p> <ul style="list-style-type: none"> - Mr. Shicong Zhang, NNIX <p>To maintain IX network clean and stable</p> <ul style="list-style-type: none"> - Mr. Masataka Mawatari, JPIX
15.00 – 15.30	Break
15.30 – 16.30	<p>Session 4: Panel Discussion – “Building the Foundation for Thailand to Become the Digital Hub of Southeast Asia”</p> <p>Moderator:</p> <ul style="list-style-type: none"> - Dr. Jesada Sivaraks, THNIC Foundation <p>Panelist:</p> <ul style="list-style-type: none"> - Mr. Ekachai Phakdurong, Thaicom Public Company Limited - Mr. Pichit Satapattayanont, International Gateway - Mr. Kempei Fukuda, NTT LTD
16.30 – 17.00	<p>BPF Quiz</p> <p>Moderator: Mr. Jirawat Karanwittayakarn</p>

Sukhumvit 1, 2 (8th Floor)

09.00 – 17.00	Peering Meeting
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ThaiNOG day
Tuesday, 16 May 2023
Carlton Grand Ballroom (9th Floor)



09.00 – 09.30	Registration
09:30 – 10:30	<p>Session 1 (Thai Language)</p> <p>How to make \$100 Mikrotik work as an enterprise network solution</p> <ul style="list-style-type: none"> - Mr. Pongpipat Thunyawiraphap - Mr. Supadej Suthiphongkanasai
10.30 – 10.45	— Break —
10.45 – 11.20	<p>Session 2 (Thai Language)</p> <p>How to implement TR069 for Management CPE for large scale?</p> <ul style="list-style-type: none"> - Mr. Tawan Thongpook, Founder - MicroDevOps Co.,LTD
11.20 – 12.30	<p>Session 3 (English Language)</p> <p>Load balancing and Service in Kubernetes</p> <ul style="list-style-type: none"> - Mr. Yin Chao, Akamai Technologies <p>Route Views and BGP data @ BKNIX</p> <ul style="list-style-type: none"> - Mr. Greg Shepherd, NSRC <p>KINDNS</p> <ul style="list-style-type: none"> - Mr. Champika Wijayatunga, APAC- ICANN
12.30 – 13.30	— Lunch —
13.30 – 15.00	<p>Session 4</p> <p>APNIC – ThaiNOG : Security Tutorial (Part 1)</p> <ul style="list-style-type: none"> - Mr. Jamie Gillespie, APNIC
15.00 – 15.15	— Break —
15.15 – 16.45	<p>APNIC – ThaiNOG : Security Tutorial (Part 2)</p> <ul style="list-style-type: none"> - Mr. Jamie Gillespie, APNIC
16.45 – 17.00	Wrap-up & Closing


Sukhumvit 1, 2 (8th Floor)




09.00 – 17.00	Peering Meeting
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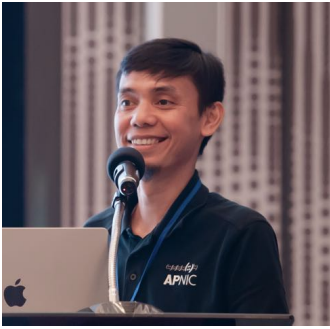

Appendix B




Speakers' Biography


	<p>Dr. Gothom Arya Chairman of the THNIC Foundation</p> <p>After obtaining a Doctoral degree in France, he returned to teach electrical engineering at Chulalongkorn University for 28 years. He then became an Election Commissioner for 4 years and a Registrar for 2 years at the Asian Institute of Technology. Since then, he has been working at Mahidol University on Peace Building, especially in the Far South of Thailand. He also serves in many civil society organizations, including the THNIC Foundation as its chairman.</p>
	<p>Dr. Marinho Barcellos University of Waikato</p> <p>Marinho Barcellos is a Senior Lecturer at the School of Computing and Mathematical Sciences at the University of Waikato, New Zealand. His research focuses on Internet measurements and network security, some of which include IXPs as vantage points. More broadly, his research has addressed various challenges as network technology evolved, covering the non-functional properties of performance, security and resilience of networked systems and their underlying protocols.</p> <p>Marinho Barcellos has regularly contributed to the network research community by serving in multiple committees, including the general co-chair of ACM SIGCOMM 2016 and the Program Committee co-chair of ACM CoNEXT 2022. He has</p>

	<p>been on several TPCs of conferences, including ACM CoNEXT, ACM IMC, IEEE INFOCOM, IEEE ICNP, ACM HotNets, and IFIP Networking. He was a member of the ACM SIGCOMM Executive Committee 2017-2021, and is currently a co-chair of the ACM SIGCOMM CARES committee. In addition, he was a member of the steering committees of ACM CoNEXT and the PAM Conference, and currently chairs the Advisory Board of the ACM PACM - NET journal.</p> <p>Marinho Barcellos received his PhD from the University of Newcastle upon Tyne, UK, in 1998. While in Brazil, he was a PI of multiple research projects on network security (e.g. P4Sec) and Internet measurements. Before moving to NZ, he worked as an Associate/Adjunct Professor at UFRGS University (2010–2019), UNISINOS University (1993–2008), PUC-RS University (2008–2009), as well as an Invited Adjunct</p>
	<p>Mr. Vincent Boon Sales Engineer, APAC Opengear</p> <p>Vincent Boon has over 30 years of experience in the IT and networking industry, working with enterprise and data center customers within APJC. For the past 18 years, his focus has been in DCIM, Infrastructure Access and Power Solutions working with clients such as Smart Nation, HCL, FPT Telecom, Equinix and many more. Technology has always been a keen interest of Vincent’s and his previous roles within technology companies have involved him working closely with engineering teams in providing productive solutions to customers. He joined Opengear at the beginning of 2018 and brings his expertise to assist customers on next generation Out-of-Band solutions and Network Automation for managing critical IT and communications infrastructure.</p>



	<p>Mr. Pierre Patris CEO Asia, ETIX Everywhere</p> <p>Pierre is CEO Asia for ETIX Everywhere data center network. ETIX Everywhere is a carrier neutral data center company operating 10 data centers in Europe and in Southeast Asia. Pierre is responsible for developing new data centers in Thailand, Vietnam and in the Philippines. In Thailand, ETIX has formed in 2022 a Joint-Venture with Interlink Telecom to operate ETIX Bangkok #1, a 4 MW carrier neutral and sustainable data center.</p>
	<p>Mr. Jonathan Brewer Consulting Engineer</p> <p>I design and build innovative networks for broadband, public safety, utilities, and the Internet of Things.</p>
	<p>Mr. Kittinan Sriprasert Technical Manager, BKNIX</p> <p>Kittinan Sriprasert is the Technical Manager at Bangkok Neutral Internet Exchange (BKNIX) – First Layer 2 IXP in Thailand. He is also the first engineer to work at BKNIX from the very beginning. He is responsible for developing overall infrastructures, including network planning, operational optimization or maintenance and services to enhance the performance and security of internet exchange infrastructures. Before BKNIX, he was a network engineer at Advance Info Services (AIS), Mobile & Broadband Operator in Thailand where his responsibilities were troubleshooting network problems in various kinds of services offered by different vendors as well as coordinating with NOC service providers and field engineers nationwide. He usually contributes to workshops such as BGP and Network Monitoring with the</p>

	<p>University Network (UniNet) and Thailand Research and Education Network (ThaiREN). He is also steering committee member of the Thai Network Operators Group .</p>
	<p>Mr. Shinta Sato General Manager, Research and Development Department Japan Registry Services Co., Ltd. (JPRS)</p> <p>Shinta Sato is currently General Manager of the Research and Development Department at Japan Registry Services Co., Ltd. (JPRS) in Tokyo, Japan.</p> <p>In his 20+ years of experience working for JPRS, he has been involved in operation, administration and planning of TLD DNS services and TLD registry services. During this period, he worked to introduce IPv6, DNSSEC and IP Anycast technologies to .JP DNS.</p> <p>In 2005, when JPRS started to jointly operate the M-Root with WIDE Project, he joined the M-Root operation team.</p> <p>He has been a member of ICANN RSSAC Caucus since 2014.</p>
	<p>Mr. Wita Laksono Senior Internet Resource Analyst, APNIC</p> <p>Wita has been a Senior Internet Resource Analyst at APNIC since 2008. With a degree in Computer Engineering, specialised skills in Networking and as a Systems Administrator, Wita is also fluent in Bahasa Indonesia, Malay and English.</p>
	<p>Ms. Vivian Wong Research Analyst, DC BYTE</p> <p>Vivian specialises in Southeast Asia market research on the DC Byte Singapore team. She cultivates relationships with data centre operators, conducts on-the-ground market inspections and has attended major ground-breaking ceremonies and visited key industrial sites and over 50 data centre facilities</p>



	<p>Mr. Shicong Zhang Co-founder and Technical Director NNIX</p> <p>Shicong Zhang, co-founder and technical director of the National (Hangzhou) Novel Internet Exchange of China (NNIX for short), an APIX steering committee member and secretary-general of the Zhejiang Provincial New Digital Infrastructure Committee, Shicong has been engaged in network communication technology for more than 10 years. Before NNIX, he worked for China Mobile as a senior expert and has experience in wireless communication and IP network communication, including network planning, construction, operation, maintenance and management.</p>
	<p>Ms. Masataka Mawatari Chief Engineer, JPIX</p> <p>Masataka Mawatari is a Chief Engineer at JPIX. He is in charge of the IX network operation, route server and IPv6 deployment. He contributes to JANOG and other engineer communities.</p>
	<p>Dr. Jesada Sivaraks Board of Director and Secretary, THNIC Foundation Head of Government and Industry Relations Ericsson</p> <p>Jesada Sivaraks received a B.E. degree in Telecommunications Engineering from KMITL, Thailand in 1990. He graduated with a M.Sc. and Ph.D. in Electrical Engineering from Oklahoma State University and Florida Atlantic University in 1997 and</p>


	<p>2001, respectively. He then joined the military information department of the Supreme Command Armed Force in 1991-1994. In 2001, he was the principal Engineer at Protura Wireless, Half Moon Bay, California and has three patents pending at WIPO (World Intellectual Property Organization). He is involved in various fields of wireless communication such as designing an antenna for mobile phones and setting the method of hand/head effect to mobile terminal.</p> <p>He joined TOT as an engineer of International Telecommunications and was a member of the 3G Strategy Team in 2004-2007 and the Wireless Business group at TOT. Now, he takes care of the business strategy of TOT's Wireless business group. Moreover, he has been invited to be a guest speaker and lecturer in various classes in graduate programs at many universities.</p> <p>He was the Secretary to the National Broadcasting and Telecommunication Commission Vice Chairman. As regulator, he was a member of different sub commission such as the sub commission for the preparation for the 2.1GHz Spectrum auction, the sub commission for the preparation for the 1800MHz Spectrum, the sub commission of the mobile</p>
	<p>Mr. Ekachai Phakdurong Chief Strategy Officer Thaicom Public Company Limited</p> <p>Ekachai is an international Telecommunications Business and Regulatory Affairs professional with a strong technical background, having worked for the internationally-recognized Thai telecommunications satellite operator, Thaicom PCL. He is now overseeing the company's strategy and corporate affairs, business development and corporate communications.</p>

	<p>His career experience covers a wide-range of aspects of the organization. During his more than 20 years at Thaicom, his assignments have covered areas from head of business units overseeing Thaicom’s subsidiaries, regulatory & government affairs, business development, engineering, operations, customer service and corporate communications.</p>
	<p>Mr. Pichit Satapattayanont CEO, International Gateway</p>
	<p>Mr. Kempei Fukuda VP, Services Grand Design, NTT LTD.</p> <p>Kempei joined NTT in 1989 after getting a Bachelor degree from International Christian University, Tokyo. Since 1993, he has devoted most of his time to global and internet business for NTT. He began participating in the buildout and operation of their R&E network, then moved on to creating NTT’s first global internet backbone in 1997. He now serves as the head of engineering for NTT Communications internet services . He has also participated in some submarine cable projects and</p>

	<p>Mr. Jirawat Karanwittayakarn Technology Evangelist, LINE Thailand</p> <p>Jirawat is a software developer with over 10 years experience. He currently works at LINE Thailand, as a Technology Evangelist. Since discovering LINE APIs and Firebase, he has spent most of his time learning about them.</p> <p>He lives in Bangkok where he is actively involved in the local LINE and Firebase communities. speaking at conferences, writing blog posts and creating code samples. He also founded the largest Thai Firebase developer group with over 10,000 members.</p> <p>His passion is to help developers learn and adopt new mobile development methodologies and frameworks like LINE APIs and Firebase. While he is not developing, he likes to spend time with his wife and children.</p>
	<p>Mr. Pongpipat Thunyawiraphap</p> <p>เริ่มใช้เน็ตเวิร์กในยุค ArcNET ความเร็ว 1.7Mbps และ 10Base-2 ความเร็ว 10Mbps ในยุคที่ระบบปฏิบัติการยังเป็น Novel Netware อยู่ในวงการสื่อสารตั้งแต่ยุคโมเด็ม และเป็น SYSOP ของ BBS ก่อนที่จะมีการให้บริการอินเทอร์เน็ตในประเทศไทย</p> <p>1997 ออกแบบและวางระบบเน็ตเวิร์ก ขนาด 600 จุด ครอบคลุม 5 อาคาร ผู้ใช้งาน 2,400 คน</p> <p>1999 บริหารระบบเน็ตเวิร์กที่มีคอมพิวเตอร์มากกว่า 1,300 เครื่อง</p> <p>2000 ตำแหน่ง Technology Committee โรงเรียนนานาชาติร่วมฤดี ได้รับรางวัล Apple Distinguished School จากบริษัท Apple เป็นโรงเรียนแห่งที่ 2 ของ Asia ที่ได้รับรางวัลนี้</p> <p>เนื่องด้วยการนำเทคโนโลยีเข้ามาเสริมระบบการศึกษาอย่างมีประสิทธิภาพ</p>

	<p>2003 เป็น Microsoft Certified Trainer</p> <p>2008 เป็น IT Director ให้กับบริษัทมหาชน และรับผิดชอบระบบออกอากาศดิจิทัลที่เป็น High Availability</p> <p>2013 เป็น Mikrotik Certified consultant</p> <p>2018 เป็น Mikrotik Certified Trainer</p> <p>ปัจจุบัน เป็นผู้เชี่ยวชาญอุปกรณ์ Mikrotik และเป็นเน็ตเวิร์ก เป็นที่ปรึกษาให้กับองค์กรต่างๆ ตั้งแต่พนักงานจำนวน 30 – 1,200 คน ทั้งกับบริษัทมหาชน, โรงพยาบาล, โรงเรียน, อพาร์ทเมนท์, บริษัท SMB ฯลฯ</p>
	<p>Mr. Supadej Suthiphongkanasai Founder, VR Online Co.,Ltd. Supadej Suthiphongkanasai (Founder, VR Online Co.,Ltd.)</p> <ul style="list-style-type: none"> – Founder VR Online Co.,Ltd. – Mikrotik Certified Trainer – Former Director of Thai Webmaster Association – Former MC of Beartai Hitech and TechOffside
	<p>Mr. Tawan Thongpook Founder MicroDevOps Co.,LTD</p> <p>MicroDevOps Co.,LTD Founder and Lecturer at KMUTNB Univeristy</p> <p>Master of Mobile Communication Application, MIT USA, Phd Telecommunication and Computer Network Engineering ,LSBU, UK, AWS, AZURE, GCC, Cisco, Mikrotik Certificate Trainer.</p>

	<p>Mr. Greg Shepherd NSRC</p> <p>Greg has been working with multicast standards and network deployments for over 20 years: in the IETF, in R&E networks as an operator, then with Cisco, Juniper, Procket, then back at Cisco. He has given numerous workshops at NANOG, APRICOT, RIPE, AFNOG, SANOG, AIT, as well as directly with customer engineers. As a Distinguished Engineer at Cisco he directed several advance development projects. He currently co-chairs the MBONED and BIER working groups in the IETF. Greg retired from Cisco in 2020, and is now working part-time back on the Route Views project at NSRC/UofO where his Internet adventure began.</p>
	<p>Mr. Champika Wijayatunga Technical Engagement Manager, APAC - ICANN</p> <p>Champika is ICANN’s Regional Technical Engagement Manager for the Asia Pacific. He is part of ICANN’s Office of the CTO and represents ICANN in Technical, Security, Law Enforcement and Capacity Building forums in the APAC region. Prior to ICANN, Champika held managerial, specialist and liaison roles at the Asia Pacific Network Information Centre (APNIC), the</p>

	<p>Regional Internet Registry for the Asia Pacific. Champika started his career with IBM Corporation as a Systems Engineer and later worked in IT industry, academia, research, and training environments in the Asia Pacific. Champika also serves in various technical community groups and committees.</p>
	<p>Mr. Jamie Gillespie Internet Security Specialist, APNIC</p> <p>Jamie Gillespie is an Internet Security Specialist at APNIC, providing security training, outreach, and development of Computer Security Incident Response Teams (CSIRTs) in the Asia Pacific region. This directly supports APNIC’s vision of “A global, open, stable, and secure Internet that serves the entire Asia Pacific Internet community”.</p> <p>With over 22 years of IT experience, 18 of those dedicated to Information Security, Jamie started his IT career at the backbone Internet provider UUNET Canada before holding a range of information security roles at AusCERT, Google, and Macquarie Cloud Services. Jamie is a Certified Information Systems Security Professional (CISSP) and Information Systems Security Architecture Professional (ISSAP).</p> <p>Jamie is an international presenter on an extensive range of topics including incident response, technical, physical, and management security, and has been interviewed for television, radio, internet, and print media.</p>

Appendix C

Press Release

BKNIX Celebrates Successful Peering Forum with Record Participation and Announces Opening of Sixth Internet Exchange Service Point

The Thai Network Information Center Foundation (THNIC Foundation) and BKNIX, the first neutral Internet Exchange Point (IXP) in Thailand, proudly announce the success of the 7th BKNIX Peering Forum. This annual event serves as a premier platform for managers and engineers in the Internet industry to exchange knowledge and foster business opportunities for Internet connectivity and content service providers.

The BKNIX Peering Forum has consistently brought together industry leaders and professionals to explore the latest advancements in Internet connectivity. This year's forum marks a significant milestone for BKNIX as they unveil the opening of the sixth location for their internet exchange service point (PoP). This expansion aims to enhance the diversity and stability of Internet services throughout Thailand.

Dr. Gothom Arya, Chairman of the THNIC Foundation, expressed his enthusiasm for the growth of BKNIX, stating, "We are delighted to witness the steady growth of BKNIX. The addition of a new internet exchange service point will further augment the geographical diversity and improve Internet service stability in Thailand."

Prof. Dr. Kanchana Kanchanasut, Vice Chairman of THNIC Foundation and recipient of the prestigious Internet Pioneer Award from the Internet Society and the Postel Service Award for those who have contributed to the Internet community, has worked as a driving force behind the BKNIX Project. She said, "Since BKNIX was established nine years ago, it was not only the beginning of a neutral domestic internet information exchange center, but also the starting point of the knowledge-sharing platform, the "BKNIX Peering Forum". This forum has grown in popularity and serves as an event that promotes the growth of the Internet industry, ultimately benefiting more and more users."

The BKNIX Peering Forum 2023 featured a captivating keynote speech, entitled “A Close Look at Remote Peering”, delivered by Dr. Marinho Barcellos, an esteemed expert in Network Security and Programmable Networks from the University of Waikato, New Zealand. The event also spotlighted a wide range of compelling topics Measurement, The SEA-5 – Spotlight on Thailand’s Data Center Market and The Landscape of Chinese IXP. Moreover, the event honored the presence of numerous distinguished Thai and international experts, including Philip Smith and Greg Shepherd from NSRC, Jonathan Brewer, Jamie Gillespie from APNIC, Pichit Satat-tayanon from International Gateway, Kempei Fukuda from NTT and many others.

In addition to fostering valuable knowledge exchange with the esteemed speakers mentioned earlier, the event also served as a platform for promoting peering and collaboration among participants. These participants comprised a diverse range of entities, including Internet Service Providers (ISPs), Content Delivery Network Providers (CDNs), Internet Data Center Providers (IDCs), Carriers, Exchange Center Providers (IXPs) and other relevant service providers. Representing a total of 19 countries, both domestic and international attendees from Australia, Bangladesh, Cambodia, China, France, Germany, Hong Kong, India, Indonesia, Japan, South Korea, Laos, Myanmar, Pakistan, Singapore, Sri Lanka, Thailand, the United States and Vietnam gathered to contribute to the event’s success. The event drew the attendance of over 330 professionals from the telecommunications and internet industry, reaffirming its significance as a prominent networking platform.

The success of the BKNIX Peering Forum 2023 was made possible by the invaluable support of numerous esteemed organizations. These include Opengear, ETIX Everywhere, ISOC, AWS, STT GDC Thailand, JPNAP, APNIC, TCC Technology Group, Symphony, Netflix, Cable Connect, Telehouse, BBIX, NTT Global IP Network, ICANN, Google, .TH, and NSRC. Their contributions and collaboration have played a pivotal role in ensuring the event’s effectiveness and significance within the industry. For more information and to catch up with the event, please visit <https://peeringforum.bknix.co.th>.