

# NextGen IT Security

Eradicating and managing IT security threats with strong policies and intelligent security measures that match evolving crimes and sophisticated criminals

Grand Copthorne Waterfront Hotel,  
Singapore

18th & 19th August 2009

**"IT security is not a process; it's a habit"**

Anonymous

In today's volatile IT climate, the only security that you can find is when you know you are well prepared for all possible threats that might threaten your company's existence and growth.



## Your eminent panel of speakers (Singapore):

**Matthew Ang** SVP Corporate Information Security Group  
**Royal Bank of Scotland**

**Sushanth Kizhakkayil** Associate Director – Information Security Risk & Compliance, Asia Pacific  
**Citco Funds**

**Robert Poh** Deputy Director of IT Security  
**SingHealth**

**Wong Onn Chee** Chapter Leader  
**OWASP Singapore**  
*Led numerous large-scale projects, primarily in the government and defence sectors. His areas of expertise include IT infrastructure and security strategy, information security management, identity management and network security.*

**Rick Zhong** Regional Assistant Manager, Global Information Protection & Business Continuity – Asia  
**Bank of America**

*He has information security experience in R&D, solution implementation, penetration testing, technical consulting & audit. He also performs independent research on newly emerged information security technologies and hacking techniques.*

**Chan Kin Chong** Information Risk Manager – APAC  
**JPMorgan Chase Bank**

*He has been actively involved in the related fields of technology and information security for more than ten years and has diverse experience in planning, designing, implementing and managing IT security initiatives. Merit Award by SPRING Singapore – 2005*

**Leonard Ong** Security Manager  
**Nokia Siemens Networks**

## Attend this informative event and gain practical insights on:

- **Maximising** your ROI on IT investment
- **Eliminating** bottlenecks in virtualising your IT systems
- **Adopting** effective vendor management strategies
- **Harnessing** effective patch management strategies to avoid security vulnerabilities
- **Discussing** global coordination efforts of developing a safer cyberspace for everyone
- **Gauging** the extent of law enforcement in cyber crime investigation

## Your distinguished Chairperson:

**Wong Onn Chee** Chapter Leader  
**OWASP Singapore**

**Ratnam Subramaniam** Group Head of IT  
**Carsem**

## Your eminent panel of speakers (International):

**Lam Siu Wah** Senior Inspector, Technology Crime Division  
**Hong Kong Police Force**

*The Hong Kong Police Force is amongst the best-trained and dedicated police forces in the World. It's computer forensics investigation technology is one of the most organised in Asia*

**Brad Harvey** ICT Infrastructure Manager  
**CBH Group**

*Virtualised 36 servers and commissioned a further 22 virtual servers. The virtualised machines run on 10 physical servers at 6:1 server consolidation ratio with enough capacity to support additional virtualization. Saved A\$500,000 in datacenter power upgrades*

**Ramiah Marappan** Vice President  
**ISACA Singapore**

**Azlan Rashid** CIO  
**Affin Bank**

*Spearheaded Affin Bank IT Outsourcing and partnership programme of 10 years amounting to RM500 million*

**Richard Moss** General Manager & Head of Business Continuity, Security and Governance Practice – APAC  
**British Telecommunications**

*He has 27 years of experience in the communications industry with 15 years being spent in Information Security*

**Daniel Ng** Chairperson  
**Professional Information Security Association (PISA)**

*Daniel has 18 years in IT, progressing from software development into ERP installation and support, and recently managing a regional IT/SOX security architecture for last 5 years*

**Christopher Quek** CEO  
**Acmamall.com**

*Spearheaded the implementation of various payment gateways from Citibank Singapore, Maybank Berhad Malaysia and Paypal.*

**Mohd Shahrin** SVP – IT  
**Bank Muamalat**

**Ratnam Subramaniam** Group Head of IT  
**Carsem**

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**0830 Registration & Morning Coffee****0855 Chairperson's opening remarks**  
**Wong Onn Chee** Chapter Leader  
**OWASP Singapore****0900 Contact Initiation Session (CIS)**

In this fast paced 15 minute session, delegates will get to know their peers by exchanging business cards

**0915 Session One**  
**Intelligently managing looming IT security threats in the current economic climate**

- Minimising internal threats through information dissemination control and accountability
- Exploring information hiding and watermarking as a possible solution
- Examining external threats faced to prevent data theft through intrusion detection
- Keeping track of your data and processes through incident management and reporting
- Preventing data leakages to uphold data integrity through encryption

**Ramiah Marappan** Vice President  
**ISACA Singapore**

**1000 Morning refreshment and networking break****1030 Session Two**  
**Embracing the significance of IT security in today's business environment**

- Idiosyncrasies in today's dynamic business environment
- Emphasising the role of IT security and its importance in this context
- Aligning your business operations with IT security to sustain competitiveness
- Investigating trends in IT security and prudent risk mitigation
- Leveraging on IT security as a business enabler

**1115 Session Three – Case Study**  
**IT security in outsourcing: Is your IT security management truly secure?**

- Effective vendor management strategies for information security
- Preventing malicious attacks on your IT infrastructure through adequate protection
- Assessing and detecting backdoors in your information system that may be created by vendors
- Avoiding disputes with vendors – ways and means
- Gauging the level of security in terms of outsourcing vs. in-sourcing
- Selecting the activities to be outsourced whilst maintaining your organisation's core competencies
- Maintaining data integrity when outsourcing IT security management

**Azlan Rashid** CIO  
**Affin Bank**

**1200 Networking luncheon****1300 Session Four – Case Study**  
**Fighting identity theft by combating Phishing and Pharming**

- Discussing how phishing remains a major threat to web site security and the increasingly sophisticated technology that phishers use
- Identifying the risks that phishing and pharming present to your organisation
- Creating secure systems that can detect phishing and pharming
- Continuously reassessing the emerging dangers of the Internet and re-evaluating the procedures to protect your company, employees and customers

**Chan Kin Chong** Information Risk Manager – APAC  
**JPMorgan Chase Bank**

**1345 Session Five****Leveraging on virtualisation to enhance efficiency and profitability**

- Analysing security policies that have to be in place before virtualising your IT system
- Controlling stakeholders' access to data whilst promoting resource sharing
- Optimising resource management by taking advantage of your virtualised platform
- Discussing the threats and exposures that arise as a result of virtualisation and fighting them
- Addressing the challenges ahead for virtualisation and cloud computing

**Daniel Ng** Chairperson

**Professional Information Security Association (PISA)**

**1430 Session Six – An Acnamall.com case study****Capturing the benefits of emerging trends in online shopping and ensuring buyer security**

Acnamall.com's motto is safe, trustworthy and convenient. These values have been highlighted as top concerns when shopping online, especially in South-East Asia

- Choosing the right partners for security and flaunting them on the webstore
- Emphasising secure methods of transmitting financial information to prevent unauthorised charges made online
- Choosing the right payment gateway partners who have rigid practices to prevent fraudulent behaviour
- Utilising Online Reliability Seals and certification to safeguard the interest of customers

**Christopher Quek** CEO  
**Acnamall.com**

**1515 Afternoon refreshments and networking break****1545 Session Seven****Business continuity planning and IT security**

- Expecting the unexpected: preparing your IT infrastructure prior to the intrusion
- Monitoring your IT infrastructure's penetration testing – tools and strategies
- Implementing a disaster recovery plan to combat the Conficker virus

**Sushanth Kizhakkayil** Associate Director – Information Security Risk & Compliance, Asia Pacific  
**Citico Funds**

**1630 Session Eight****Carsem Case Study - IT security for manufacturing organisations**

- Examining the pitfalls of IT security and its scope in manufacturing organisations like Carsem
- Assessing past IT security controls to determine assumptions and risks
- Utilising risk management to minimise potential disruptions to work
- Overcoming challenges in implementing new security controls
- Discussing plans for securing the organisation for the future

**Ratnam Subramaniam** Group Head of IT  
**Carsem**

**1715 Session Nine – Panel Discussion****Maximising your ROI on IT security spending**

- Justifying your spending through an intensive evaluation of processes, end-users and vendors
- Investing in new technologies to safeguard the IT infrastructure
- Evolving trends in IT security spending: To be practical or pragmatic?
- Measuring the benefits accrued on investing in new technologies

Panelists:

**Azlan Rashid** CIO  
**Affin Bank**

**Sushanth Kizhakkayil** Associate Director – Information Security Risk & Compliance, Asia Pacific  
**Citico Funds**

**1800 Chairperson's closing remarks and close of Day One****About the Media Partners**

**Help Net Security** has been a prime resource for information security news since 1998. The site is updated daily with fresh content including top quality articles, new product releases, latest industry news and more. ([www.net-security.org](http://www.net-security.org))

**ZDNet Asia** is a comprehensive online resource for enterprise and SMB technology decision-makers in Asia, featuring 400 fresh pieces of original content per month from our Asia and global editorial teams, including tech news and insight with regional perspectives, and over 60,000 whitepapers, case studies and webcasts in our IT library.

**Strategic Path Asia** has over 52,000 executives in almost 10,000 companies in addition to their databases with massive affiliate and event marketing as well as many other SEO and online campaigns to target additional potential subscribers. By mid-2009 they expect to have a regular and growing monthly traffic of at least 40,000 unique visitors targeted at Directors and Managers of Corporate Strategy & Direction, Information Technology, Enterprise Architectures & Data Infrastructure, Data Centres & Server Rooms, Network Managers, MIS, EDP, Enterprise Applications & Application Development, Communications, UC, Conferencing & Applications, Help Desk & Support, Contact Centres, Customer Service, Mobility application, architectures, device and support, L.O.B.s for Finance, Sales, Marketing, HR & Logistics, Facilities Management, Procurement & Project Management and Systems Integration & Consultancy. ([www.StrategicPath.Asia](http://www.StrategicPath.Asia))

**About the Supporting Organisation**

The Singapore Exhibition and Convention Bureau (SECB), a group of the **Singapore Tourism Board (STB)**, is the lead government agency for the business events sector in Singapore. Its mission is to champion business travel and business events as key drivers of the tourism sector and enablers for cluster growth in Singapore. It also assists business event organizers, corporations and associations by providing comprehensive and impartial information on Singapore's MICE facilities, incentive venues and industry partners.

**marcus evans** would like to thank everyone who has helped with the research and organisation of this event, particularly the speakers and their staff for their support and commitment.

**0830 Morning Coffee****0855 Chairperson's opening remarks**

**Ratnam Subramaniam** Group Head of IT  
**Carsem**

**0900 Session One – A CBH case study  
Reducing operational costs and supporting new business initiatives through virtualisation**

- A brief overview of CBH & the growth and history of ICT systems within the company
- Discussing the challenges facing the business as a result of changes in the economic environment
- Measuring the benefits of virtualisation - specifically cost benefits, disaster recovery capability and environmental sustainability
- Examining the lessons learned from undertaking virtualisation
- Mastering the critical success factors in virtualisation

**Brad Harvey** ICT Infrastructure Manager  
**CBH Group**

**0945 Session Two – Case Study  
Adapting to the enduring demands of technologies by way of IT convergence**

- Integrating your communication system into a single platform to increase efficiency
  - Examining the criteria and prerequisites for IT convergence
  - Discussing the threats and risks of converging your infocomm system
  - Formulating policies and standards for convergence to ensure data security
- Richard Moss** General Manager & Head of Business Continuity, Security and Governance Practice – APAC  
**British Telecommunications**

**1030 Morning refreshments and networking break****1100 Session Three – Case Study  
Network security through network isolation: Pulling the plug to protect your infocomm system**

- Determining the degree of network isolation to be adopted to safeguard sensitive data when the network has been hacked
- Securing your IT infrastructure by way of network segmentation as an alternative
- Reviewing the implications of “clean room” isolation to determine the viability

**Matthew Ang** SVP Corporate Information Security Group  
**Royal Bank of Scotland**

**1145 Session Four – Case Study  
Telecommunication security baseline: An approach to secure critical telecommunication infrastructure**

- Outlining past incidents and security trends
- Security drivers in telecommunications industry
- Emphasising the need to establish a telecommunication security baseline
- Preventing revenue leakages and mitigating risks with the baseline

**Leonard Ong** Security Manager  
**Nokia Siemens Network**

**1230 Networking luncheon****1330 Session Five  
Strengthening IT governance, risk management and compliance to generate superior business value**

- Responding to the heightened risks in light of the economic downturn
- Referring to the resources available to ensure compliance to the industry-specific regulatory framework
- Implementing continuous improvement of processes and policies to keep up with the development in the industry
- Striking a balance between process and compliance: Back to fundamental tools

**Mohd Shahrin** SVP – IT  
**Bank Muamalat**

**1415 Session Six  
Gauging the extent of law enforcement in cyber crime investigation**

- Emerging trends and developments in cyber crime investigation
- Tackling the issue of talent in this field through adequate training & development
- Dealing with cyber crime investigation and incidents response
- Deciding on whether to develop cyber forensics in-house or outsource the function
- Understanding the psyche of cyber criminals

**Lam Siu Wah** Senior Inspector, Technology Crime Division  
**Hong Kong Police Force**

**1500 Afternoon refreshments and networking break****1530 Session Seven  
Harnessing effective patch management strategies to avoid security vulnerabilities**

- Developing a written patch management policy to ensure compliance and security of your IT infrastructure
- Saving time by automating your patch management to avoid unstable IT infrastructure
- Zooming into the 5 tips of effective patch management to develop a standardised patch environment
- Tackling challenges faced in patching your legacy systems to ensure a secure IT infrastructure

**Robert Poh** Deputy Director of IT Security  
**SingHealth**

**1615 Session Eight – Panel Discussion  
Discussing global coordination efforts of developing a safer cyberspace for everyone**

- Exploring the existing mechanisms available for cyber crime prevention
- Promoting the coordination between interest groups and government agencies to develop a safer cyberspace
- Safeguarding infocomm systems from cyberspace-enabled attacks - initiatives taken

**Panelists:**  
**Rick Zhong** Regional Assistant Manager, Global Information Protection & Business Continuity - Asia  
**Bank of America**

**Wong Onn Chee** Chapter Leader  
**OWASP Singapore**

**Richard Moss** General Manager & Head of Business Continuity, Security and Governance Practice – APAC  
**British Telecommunications**

**1700 Chairperson's closing remarks and close of Day Two****Why you cannot miss this event**

Due to the global dependency on technology combined with the expanding presence of the internet as a key resource are pressuring organisations to secure and protect their information assets. Companies worldwide are facing escalating economic uncertainty. And yet, at the same time, the forces of globalisation and technology continue to offer tremendous opportunities. In light of difficult economic times, it is crucial for information security teams to continue to move ahead with their efforts to achieve business alignment, leveraging the progress they have made over the past decade. On top of that, IT departments worldwide are also being asked to do more with less. It has now become critical for teams to explore and discover ways to deliver higher levels of business value, meaning to build a lean yet effective information security program. Companies are striving to maximise their ROI on IT security projects.

Furthermore, the economic crunch has contributed to the rise in cyber crime rates. It is crucial for IT security professionals to keep up-to-date on their knowledge in the latest threats, new practices and continuous improvement strategies in the industry to maintain a competitive edge in the market. Businesses are under severe pressure to compete and maintain market share. With costs of innovation rising and profitability becoming harder to maintain, companies and employees are resorting to information theft to remain competitive. Volatile economic conditions also threaten the livelihood and data security of companies – making business continuity planning more vital than ever.

**Who should attend**

CIOs, CTOs, CISOs, Directors, VPs, General Managers, Managers, Head of Departments, Engineers of:

- Information Technology
- Network Security
- Information Risk
- Systems
- Wireless Business
- Information Security
- IT Audit
- E-Commerce
- Technical Support
- Mobile Technology

Also: System administrators

From:

- Banking and financial services
- IT
- Government Bodies
- Communications and Media
- Transportation
- Manufacturing
- Associations
- Telecommunications
- E-Governments
- Oil and Gas
- Airlines
- Petrochemical and Chemical
- Pharmaceuticals & Healthcare
- Consultants

# Speaker's profile

## Speakers:

### **Brad Harvey** ICT Infrastructure Manager **CBH Group**

BRAD HARVEY is the ICT Security and Infrastructure Manager for the CBH Group, a global grain distribution and marketing organisation headquartered in Perth, Australia. Brad's responsibility is to establish and oversee all policies and strategies for securing the Group's electronic business information services and managing the overall ICT infrastructure blueprint.

Brad joined the CBH Group in May 2005 as an Infrastructure Consultant before being appointed CBH's ICT Infrastructure Manager in 2007. Being responsible for a diverse communications network encompassing 200 sites spread across regional Western Australia, Brad directed the consolidation of the Group's 180 application servers to a virtual platform located across redundant, secure data centres, while assimilating hierarchical lifecycle data management and disaster redundancy provisions into the organisation. In 2009 Information Security was added to Brad's portfolio of responsibilities subsequent to him establishing a security framework consistent with ISO/IEC 27001 and ISO/IEC 27002. Brad serves on the Group's Enterprise Architecture and Change Advisory Boards.

A 20 year professional of the ICT industry, Brad has held management roles at Clayton Utz Barristers & Solicitors and Argyle Diamonds, as well as architecture and integration roles with Ferntree Computer Corporation and Unisys. Brad holds a Masters degree in Information System Security from Charles Sturt University in New South Wales and is a member of the Australian Information Security Association. He is presently completing the MBA program at CSU.

### **Richard Moss** General Manager & Head of Business Continuity, Security and Governance Practice – APAC **British Telecommunications**

Based in Hong Kong, Richard Moss is General Manager and Head of BT's Business Continuity, Security & Governance Practice for Asia Pacific responsible for all security solutions and consultancy capability in region. Richard has 27 years of experience in the communications industry with 15 years being spent in Information Security. Prior to joining BT in January 2004, Richard was Business Unit Manager for Hewlett-Packard's Communication Test business unit in Asia Pacific responsible for a US\$100M Asia-wide business. Richard's career in the communications industry commenced in 1981 when he joined the Royal Air Force as an aircraft avionics engineer specialising in avionics, electronic counter-measures, encryption, and high availability systems. Since then Richard has held numerous roles in electronic engineering, technical support, sales, marketing and professional services and has had numerous international assignments living and working in the USA, Germany and Asia Pacific during his extensive career. Richard has lived in Hong Kong since 1999.

Born in Yorkshire, England, Richard is registered as a Chartered Engineer with the Engineering Council of the UK and Member of the 'Institution of

Engineering and Technology' as well as a Member of the International Compliance Association with whom he holds a post graduate Diploma in International Compliance. Educated at University College London, Richard holds an MSc in Telecommunications as well as qualifications in Computer Science, a Post Graduate Diploma in Management and is a Certified Operational Risk Manager (CORM). Outside of work, Richard has numerous interests including military history, travel and is an avid Rugby fanatic living in Hong Kong with his Australian wife, and four children, three boys and a baby girl. Richard also writes regularly on security related matters including a weekly blog on [searchsecurityasia.com](http://searchsecurityasia.com)

### **Daniel Ng** Chairperson **Professional Information Security Association (PISA)**

Daniel has 18 years in IT, progressing from software development into ERP installation and support, and recently managing a regional IT/SOX security architecture for last 5 years. Other than IT security, he operates a business process outsourcing for a European electronics company in China, and an active Services SixSigma practitioner. In 2001-2005, Daniel was the voluntary director for an IT-audit society in Hongkong.

Daniel has one degree in Electronics, one BBA in HRM, one Master in Financial Engineering, one Master in IT Management, and one Master in Accounting. Recently, he becomes CPA (Aust) associate. Daniel was the Vice-Chairperson for External Affairs in the term 2007-2008 and he is now serving as the Chairperson of PISA.

### **Azlan Rashid** CIO **Affin Bank**

Azlan has 20 years experience in the IT industry – primarily involving the Banking and Financial sector. He began his career in IT with IBM International, and went on to work for established organisations like Bank Pertanian Malaysia (Agro Bank), RHB/SIME Bank, Permodalan Nasional Berhad (PNB), GITN(a PNB Government Infrastructure Subsidiary) and now Affin Bank.

His experience in IT range from IT strategy, reorganization & restructuring, re-alignment, transformation, programme/project management, IT SOP, BCP, compliance & governance, risk management, large/complex IT infrastructures, migrations, people management, vendor management and large-scale outsourcing. During his tenure with PNB, he was given a dual role upon being seconded to GITN (a PNB Subsidiary) as Executive Director/CEO. As the ED/CEO, he oversees all aspect of the company well being with focus on the day to day operations, human resource requirements, assets and liability matters, finance, cash flow, governance, company business direction and sales and marketing among others. Furthermore, Azlan has spearheaded Affin Bank's IT Outsourcing and partnership programme of 10 years amounting to RM500 million. Apart from that he was also heavily involved in the restructuring of the bank's IT infrastructure and successfully implemented Affin Bank's risk management processes in compliance to Basel.

### **Chan Kin Chong** Information Risk Manager – APAC **JPMorgan Chase Bank** *Chairperson, Security & Privacy Standards Technical Committee, IT Standards Committee, Singapore* *Vice-President, Special Interest Group in Security & Information inteGriTy (SIG^2), Singapore*

Mr Chan Kin Chong is the Information Risk Manager with JPMorgan Chase Bank for the Asia Pacific region, a regional risk management role that covers the diverse areas of risk assessment, system security design, third-party service provider IT audit, regulatory compliance, security process engineering, and user security awareness. He has been actively involved in the related fields of technology and information security for more than ten years and has diverse experience in planning, designing, implementing and managing IT security initiatives.

Kin Chong holds the position of Chairman of the Security and Privacy Standards Technical Committee (<http://www.itsc.org.sg/spstc.html>) under the Singapore IT Standards Committee (ITSC) and represents Singapore in ISO/IEC JTC 1 SC 27 and the RAISE Forum (<http://www.itsc.org.sg/raiss.html>). He is also a former executive committee member of the Association of Information Security Professionals (<http://www.aisp.sg>), and Vice-President of SIG^2 (<http://www.security.org.sg>), a special interest group for IT security practitioners.

Kin Chong is a frequent speaker at security conferences and seminars and his articles on information security standards development and implementation have been published in the RAISE Forum proceedings since 2004. For his service and contribution to the Singapore standardisation programme, Kin Chong was awarded the Merit Award by SPRING Singapore in 2005. Kin Chong holds double bachelor degrees in Mathematics and Computer Science from Carnegie Mellon University. He is also a Certified Information Systems Security Professional (CISSP), Certified Information Systems Auditor (CISA) and Member of the AISP.

### **Christopher Quek** CEO **Acmamall.com**

Christopher Quek graduated with a Bachelor of Commerce (Management) from the University of Melbourne. He took over as CEO of Acmamall.com in 2002 and has since spear-headed its expansion across the ASEAN region. He has been actively involved in the implementation of various payment gateways from Citibank Singapore, Maybank Berhad Malaysia and Paypal. He possesses in-depth experience in understanding the intricacies of the ASEAN customer and the knowledge to tap into these markets.

Acmamall.com, an online ASEAN shopping mall, now boasts over 50,000 customers in the ASEAN region, selling 1.5 million books, beauty products, DVDs and healthcare products.

## Our panelists:

### **Rick Zhong** Regional Assistant Manager, Global Information Protection & Business Continuity – Asia **Bank of America**

Rick has more than 6 years information security experience in R&D, solution implementation, penetration testing, technical consulting & audit. He is currently in a regional role with Bank of America, focusing on information security risk assessment, consulting and project management. He also performs independent research on newly emerged information security technologies and hacking techniques. Prior to Bank of America, Rick was a senior consultant leading the penetration testing team in the Advisory service of PricewaterhouseCoopers Singapore. Rick is a Certified Information Systems Security Professional (CISSP), and a Certified Information Security Auditor (CISA).

### **Wong Onn Chee** Chapter Leader **OWASP Singapore**

Onn Chee was a founding member and the first Vice-President of the Information Systems Security Association (ISSA), Singapore Chapter, the largest international, not-for-profit association for security professionals. He was also a former member of the Center of Internet Security (US) which provides well-recognised security benchmarks for various systems which are commonly used by US Federal Government and private organisations. He is also the current Singapore chapter president of Open Web Application Security Project (OWASP) and a co-organiser of the Security Meetup Group in Singapore.

He has led numerous large-scale projects, primarily in the government and defence sectors. His areas of expertise include IT infrastructure and security strategy, information security management, identity management and network security. He also possess vast experience in large-scale infrastructure and identity management projects, which include implementation of a Data Grid in a national library; upgrade of identity management system in one of Singapore banks; one of the largest Linux server migration in Asia Pacific; the largest deployment of OpenOffice in the world; and, numerous secure thin clients architecture projects. Apart from that, Onn Chee is also trained in BS 7799/ISO 17799, ISO 9000 and ITIL. He is also a certified Project Management Professional (PMP) and certified PRINCE2 Practitioner. In 2007, Onn Chee was appointed as the President of International Association of Software Architect (IASA), Singapore Chapter.