2nd Asia Pacific Net5.5G & Cybersecurity Summit 2024

4 - 6 December

Grand Millennium, Kuala Lumpur

ASEAN ECONOMIC FORUM

APAC IPv6 COUNCIL

IPv6 FORUM Malaysia

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UNIVERSITI SAINS MALAYSIA

National Advanced IPv6 Centre of Excellence

Contact Us
+604 - 6119169

Website
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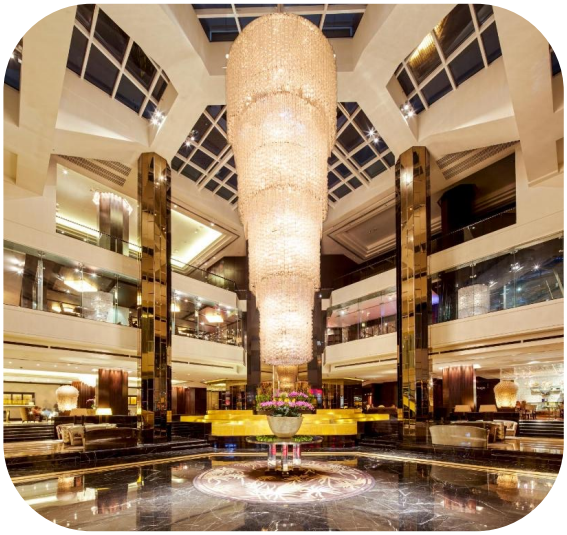
Venue

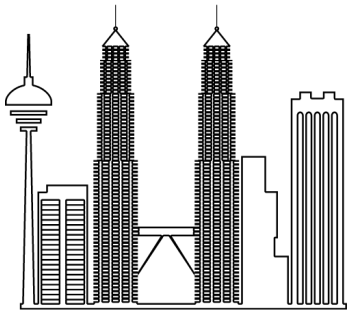
APAC Net5.5G & Cybersecurity Summit 2024

Kuala Lumpur

GRAND MILLENNIUM KUALA LUMPUR



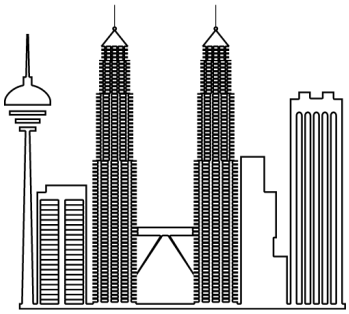
Day 1 Agenda



APAC Net5.5G & Cybersecurity Summit 2024
Kuala Lumpur

8.30 am – 9.00 am	Registration
9.00 am – 9.15 am	Arrival of VIPs
9.15 am – 9.30 am	Welcome Address by **Prof Emeritus Dr Sureswaran Ramadass** *Chairman, IPv6 Forum Malaysia*
9.30 am – 10.00 am	Officiating Speech by **YB Tuan Gobind Singh Deo** *Minister of Digital, Malaysia* Speech by **ASEAN Representative** Photography & Press Conference
10.00 am – 11.00 am	**Telecommunications Leadership Panel** **Moderators & Panellists from Telco Providers**
11.00 am – 11.15 am	Morning Coffee Break VIPs visit **Net5.5G Innovation Competition Showcase Stations**
11.15 am – 12.00 noon	**Keynote Address** Cybersecurity in the 5G Era: Challenges and Opportunities **Mr Derek John Fernandez** *Commissioner, Malaysian Communications & Multimedia Commission*
12.00 noon – 1.00 pm	Net5.5G: An Overview of Next-Generation Network Evolution **Mr Ryan Qiu** Enhanced Network Slicing in Net5.5G: Customizing Connectivity for Diverse Applications **Dr Latif Ladid** Energy Efficiency and Sustainability in Net5.5G Networks **Prof Masaki Umejima**
1.00 pm – 2.30 pm	Lunch
2.30 pm – 4.00 pm	**OTT Forum Session** Net5.5G Empowering Next-Gen OTT: Speed, Scale, and Security **Moderators & Panellists from OTT Platforms**
4.00 pm – 4.15 pm	**Afternoon Coffee Break**
4.15pm – 5.00 pm	**Innovation Competition Awards Ceremony** **Speakers & Panellists Appreciation** **Group Photo**
7.30 pm onwards	**Dinner & Cultural Show**

Special Track #1
Day 2



APAC Net5.5G & Cybersecurity Summit 2024
Kuala Lumpur

Certified 5G for Management

Morning Session

9:00 am to 11:00 am

Introduction to 5G technology

- *Evolution of mobile technologies from 1G to 5G*
- *5G technology features*
- *Comparing 5G and 4G*
- *5G spectrum allocation and assignment*
- *5G preparation, deployment, and utilization*
- *5G deployment scenarios:*
  - *Enhanced Mobile Broadband (eMBB)*
  - *Massive Machine-Type Communications (m-MTC)*
  - *Ultra Reliable Low Latency Communications (URLLC)*
  - *Fixed-wireless access (FWA)*
- *Technologies driving the 5G evolution*

MORNING TEA BREAK (15 minutes)

11:15 am to 1:00 pm

Socio economic impact from the introduction of 5G

- *Societal change and economic contributions*
- *Global 5G deployment*
- *5G application and specialized services*
- *5G value chain outlooks*
  - *AI/ML*
  - *Big Data*
  - *High-performance computing (HPC)*

LUNCH (1 Hour)

Afternoon Session

2:00 pm to 3:30 pm

Advanced 5G Technologies

- *5G Overall Architecture*
- *Network Slicing*
- *Network Functions Virtualization (NFV)*
- *Frequency Allocation for 5G Networks*
- *5G Technology Stack*
- *IPv6 for 5G*
- *5G Worldwide Implementation*

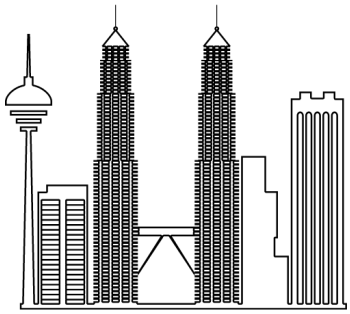
EVENING TEA BREAK (15 minutes)

3:45 pm to 5:00 pm

5G EMF Radiation Health Issues

- *5G EMF base station Radiation*
- *5G Device Radiation.*
- *Relationship between 5G Device and Base station*
- *SAR Compliance*
- *Ionizing Radiations*
- *Organizations working on EMF exposure issues*
- *ITU activities on EMF exposure issues*

Special Track #1
Day 3



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Certified 5G for Management

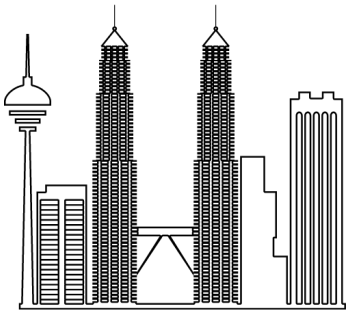
Morning Session

9:00 am to 11:00 am	**Business models for 5G deployment** • *B2C, B2B and B2B2X 5G deployment business models* • *Business-to-consumer (B2C)* • *Business-to-business (B2B)* • *Business-to-business-to-any (B2B2X)*
MORNING TEA BREAK (15 minutes)	
11:15 am to 1:00 pm	**5G Implementation scenarios and Case Studies** • *AR/VR* • *Video surveillance* • *Public Transport* • *Financial Services and Banking* • *Media and Entertainment* • *Public Safety* • *Automotive* • *Healthcare* • *IoT and fleet management* • *Smart Manufacturing* • *Energy and Utilities*
LUNCH (1 Hour)	

Afternoon Session

2:00 pm to 3:30 pm	**5G Deployment in Malaysia** • *5G Deployment Architecture in Malaysia* • *Comparison of 5G Deployment in Malaysia vs Other Models* • *How would a SME or Organization benefit from 5G connectivity?* • *What are the manpower and technical investments needed to implement 5G?*
EVENING TEA BREAK (15 minutes)	
3:45 pm to 5:35 pm	**Case study on Implementing 5G for your organization (30 Mins)** ▪ *Group Assignment.* ▪ *An experienced Coordinator will be assigned to each group to assist in developing the case study.* **Presentation & Discussion (60 Mins)** ▪ *Each Group will present their case study.* ▪ *Includes Discussions , Q&A.*

Special Track #2
Day 2



APAC Net5.5G & Cybersecurity Summit 2024
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Certified IoT Security Professional

Morning Session

9:00 am to 11:00 am	**Overview of IoT Technologies (Part 1)** • What is IoT? • IoT Architecture & Ecosystem • Hardware & Software Platforms • Communication Channels & Protocols • Cloud & IoT • Cloud & RESTful Web Services • Data Streaming & IoT
MORNING TEA BREAK (15 minutes)	

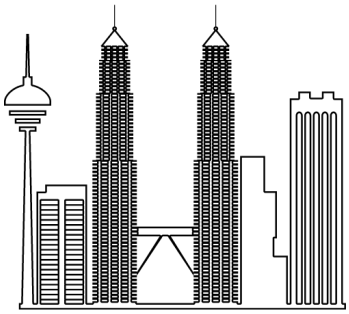
11:15 am to 1:00 pm	**Overview of IoT Technologies (Part 2)**
	• IoT Myths Debunked
	• IoT Applications & Case Studies
	  • Agriculture
	  • Medical
	  • Meteorology

LUNCH (1 Hour)	

Afternoon Session

2:00 pm to 3:30 pm	**IoT Security Overview** • Overview of IoT Security • IoT Threats • Challenges to Secure IoT Deployments • Types of IoT Attacks
EVENING TEA BREAK (15 minutes)	
3:45 pm to 5:00 pm	**Baseline Policies for IoT Security** • IoT Security Controls Lifecyle • Authentication/Authorization • Logging & Audit Framework • Privacy by Design • Data Protection Policies

Special Track #2
Day 3



APAC Net5.5G & Cybersecurity Summit 2024
Kuala Lumpur

Certified IoT Security Professional

Morning Session

9:00 am to 11:00 am	**IoT Vulnerabilities** • Insecure Web Interface • Insufficient Authentication/Authorization • Insecure Network Services • Lack of Transport Encryption • Privacy Concerns • Insecure Cloud Interface • Insecure Mobile Interface • Insufficient Security Configurability • Insecure Software/Firmware • Poor physical Security
MORNING TEA BREAK (15 minutes)	
11:15 am to 1:00 pm	**IoT Endpoint Security Guidelines** • IoT Endpoint Security Challenges • IoT Endpoint Security Model & Recommendations • Secure the IoT Systems • Security the IoT Network • IPv4/IPv64 Based Security Guidelines • Data Link Layer Based Network Guidelines
LUNCH (1 Hour)	

Afternoon Session

2:00 pm to 3:30 pm	**IoT Security Recommendations** • High Priority Security Recommendations • Medium Priority Recommendations • Low Priority Recommendations • 5G based IoT Endpoint Security Recommendations
EVENING TEA BREAK (15 minutes)	
3:45 pm to 5:00 pm	**Hands-on Practical Hacking of IoT Devices** • IoT Lab Installation • IoT Security LAN Installation • IoT Operating System Security • IoT Communication (Wifi/Bluetooth) security • IoT vulnerability search engine

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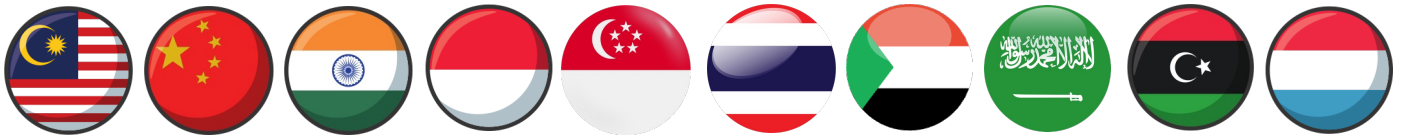
Past Event Portfolio (1st Edition)
IPv6 Enhanced & 5G Global Conference 2023

130+ participants,
over-subscribed by 30%

10 countries



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Links:

- Conference Website
- Photo Gallery
- Video Gallery
- Media Publication