

# See the Light

3-5 June 2014 Hotel Equatorial Penang, Malaysia



# Pre-Conference Day, 3 June 2014 Stream A – FTTH Master-Class

Workshop Leader: Bernard Lee, VP, FTTH Council Asia-Pacific

09:30 Key challenges and obstacles to FTTH deployments in Asia-Pacific: Practical challenges

Bernard Lee, VP, FTTH Council Asia-Pacific

10:00 Lack of manpower an obvious FTTH Stopper! The importance of adequate skill workforce

Dr. Hideyuki Iwata, Senior Research Engineer, Supervisor, Research & Development Planning Department, NTT Access Network Service System Laboratories

10:20 The reality of laying the network: Common pitfalls of deployment

Kiran Solipuram, Planning and Design Head – APAC Telecommunications, Infotech Enterprises

**Mohammad Syibli,** Manager – OSP Design, **PT Telekomunikasi Indonesia** 

10:50 Morning Tea

11:20 Ways to track and identify potential problems before they occur

Peter Macaulay, Chair, Application and Solutions Committee, FTTH Council Asia-Pacific

11:40 How telcos in the region have mitigated costs and overcome the challenges to FTTH deployment by means of modern test and management systems

Udo Fetzer, Market Manager Fiber Optics APAC, JDSU

12:00 Measures put in place by telcos, regulators and the real estate community to assist FTTH deployment: What you need to know

Kiana Shek, Senior Manager – Corporate Relationship Enterprise Solutions, Hong Kong Broadband Network

12:30 Workshop Summary, Q&A Stream A

13:00 Close of Workshop

# Site Visit: Tour of Penang's Telecommunications Infrastructure

14:00 Get a behind-the-scenes look at Penang's growing network infrastructure together with government officials and representatives of the telecommunications industry. This is an excellent opportunity to network with your peers and share insights on common challenges, solutions, and trends in FTTH deployments.

17:00 Return to Conference

17:30 Welcome Reception
Sponsored by PDC and Senko

# Pre-Conference Day, 3 June 2014 Stream B – Mobile Backhaul

Workshop Leader: Roland Montagne, Principal Analyst, iDATE

# 09:30 Examining the drivers shaping LTE evolution and the future of mobile backhaul

- · LTE overview: Market size, pace of deployment
- How are Asia's customers' demands changing? Is speed still the key ARPU enhancer?
- What is the massive upgrade that will have to be made to mobile backhaul networks worldwide?
- · Where and how does fiber technology fit into this space?
- · Fiber networks for backhaul: Build, lease or share?

Panellists:

Suresh Ramasamy, Principal Consultant, DiGi Telecommunications

**Dr Wang Ching-Sheu**, Senior Director Corporate Planning Department, **Chunghwa Telecom** 

**Revolin Simulsyah Nasution**, Executive General Manager Broadband Division, **PT.Telekomunikasi Indonesia** 

# 10:20 More bandwidth: Fiber to the Antenna (FTTA) and to small cells

- How are operators deploying fiber "all the way" to handle the massive upgrades that mobile operators are demanding?
- New RRH and CPRI architectures mean more fiber will be deployed right to the antenna – what are the design considerations, challenges and solutions for FTTA?
- Small cell sites will differ significantly from BTS sites how to get fiber and power to lamp posts, utility poles, and street furniture

Ryan Chappell, Business Development Manager, TE Connectivity Udo Fetzer, Market Manager, Fiber Optics APAC, JDSU

# 10:50 Morning Tea

# 11:20 Examining the challenges to effective fiber-optic small cells deployment

- · What is most cost effective way to deploy and backhaul small cells?
- · Design and optimisation of fiber-optic small cell backhaul
- Exploring shared backhaul as a solution to efficient small cell deployments
- Lessons learnt from existing small cells deployments using fiber-optics

**Gunadi Dwi Hantoro,** Manager Wireless Broadband, **PT. Telekomunikasi** Indonesia

Dilir Hossain, Head of Transmission Planning, Grameenphone

# 12:00 Integrating Wi-Fi offloading in an overall traffic management strategy

- Fiber + Wi-FI offloading the next steps of network advancement?
- What are some of the challenges for utilising Wi-Fi as a offloading strategy in Asia
- What are the economies of scale to be achieved and the real impact on backhaul?

Lau Bik Soon, Group CEO, REDtone

# 12:30 Comparing fiber technology with copper, satellite and microwave: Timelines, investment and cost

- What backhaul options exist to cater to the high-capacity demands of mobile networks?
- FTTH: The end all solution for Mobile Broadband? When can this be realised?
- Proportion of microwave links and fiber connections for backhaul infrastructure
- Integration of Ethernet
- CAPEX & OPEX considerations

Roland Montagne, Principal Analyst, iDATE

**Muhammad Firdaus Abdul Monir**, General Manager of Network Architecture, **Telekom Malaysia** 

13:00 Close of Workshop



# Main Conference Day One, 4 June 2014 (Wednesday)

# 08:00 Registration and Coffee

# **Plenary Session**

# 08:45 FTTH Council Asia-Pacific Opening Remarks

Zony Chen, Annual Conference Chair, FTTH Council Asia-Pacific Monique J. Morrow, President, FTTH Council Asia-Pacific

# 09:00 FTTH – the foundation of a new digital society

• Economic prosperity through business, social and entertainment opportunities

Approaching fiber deployment in Penang: A government's perspective

Honourable Lim Guan Eng, Chief Minister, Penang State

Chaired by: Bob Fox, Director, Foxcom

09:50

FEATURED

OPERATOR

### 09:20 Developing Penang's next generation network

The timelines and strategy for the development of Penang's next generation network

• Impacts on telecommunication operators, developers and regulators

Honourable Jeff Ooi, Member of Parliament, Chairman, PDC Telecommunication

# FTTH Deployment: Future challenges to be met by the industry

Rob Shaddock, CTO, TE Connectivity

### 10:20 Examining Malaysia's model for fast, efficient, nationwide FTTH deployment

· Latest updates on HSBB and plans over the next three years for FTTH

- · How much spending will be needed to sufficiently to upgrade exchanges nationwide?
- What are the current deployment challenges faced in Malaysia?

Dr Farid Sani, Chief Strategy Officer, Telecom Malaysia

# 10:40 Morning Tea and Exhibition Viewing

# 11:10 India: Insights into the National optical fiber network (NOFN)

Current technology trends, applications and opportunities for FTTH in India

- · Where is the huge demand for FTTH coming from in India?
- How can clear government policies and approvals help to improve the development of FTTH deployment?

Shri N. Ravi Shanker, Chairman & Managing Director, Bharat Broadband Network

# 11:40 FTTH vs. LTE-Advanced: Competition or Co-operation?

Do LTE and LTE-Advanced networks present a threat to FTTH?

- · LTE Advanced and performance of mobile networks in future compared with fiber
- Why should network operators be careful when deploying FTTH?

Panellists:

Dr Farid Sani, Chief Strategy Officer, Telecom Malaysia

Wei Leping, Chairman of Technology Steering Advisory Committee, China Telecom Corporation

12:20 Networking Lunch and Exhibition Viewing

# **Operator Deployment Case Studies**

Chaired by: Tim Clark, Board Member, FTTH Council

#### Discussing what is needed in FTTH policy 13:40 and regulation

- · Examining regulatory framework FTTH across Asia and key lessons to be learnt
- Designing the right broadband policies accelerate FTTH
- Should FTTH deployment be given to municipal bodies or other cash rich utility services or with the TSP?

### Panellists:

Kiana Shek, Senior Manager - Corporate Relationship Enterprise Solutions, HKBN

Nor Akmar Shah Minan, Head, Broadband Management Division, MCMC

Jeff Ooi, Chairman, PDC Telecommunication **Honourable Deputy Commissioner Carlo** Jose Martinez, NTC

Khoong Hock Yun, Assistant CEO, Infrastructure and Services Group, IDA

#### **Examining Singapore's FTTH regulatory** 14:30 policies and best practice

- · The regulatory framework in Singapore
- Challenges seen in upcoming FTTH regions and learning from Singapore's

Khoong Hock Yun, Assistant CEO, Infrastructure and Services Group, Infocomm **Development Authority of Singapore** 

#### Examining the top FTTH challenges in 14:50 Asia-Pacific

- · Examining South Korea FTTH deployment and lessons learnt for emerging markets
- · Fiber splicing user experience in different countries and INNO global exposure in FTTH
- Next generation connection technology Jung Yo Moon, Overseas Sales Manager, INNO Instrument

# **FTTH Monetisation**

# Envisioning FTTH in Penang to expand the state-wide Wi-Fi offering 13:40

- · Diversifying business into WiFi offerings
- The opportunities brought on by increased fiber networking

Lau Bik Soon, Group CEO, REDtone

#### 14:10 Future-proofed services and the monetisation of fiber

- Development of content services in Asia Pacific for entertainment, OTT, etc
- New business models for content delivery
- How capacity and demands for bandwidth will change
- · How Google Fiber will change the game Sergio Salvador, Head of SouthEast Asia, Strategic Partnerships, Google

#### 14:40 Solutions on optical access networks for mass deployment

Kivoshi Omoto, Senior Research Engineer. NTT Access Service System Labs

# **Evolution of FTTH**

#### 13:40 10G-PON and NG-PON in the FTTH ecosystem

- Lessons learned at G-PON
- Upgrade scenarios and co-exhistence of the different PON technologies
- · Challenges in the field
- Bole of test instruments and systems in securing the best customer experience

Udo Fetzer, Market Manager Fiber Optics APAC, **JDSÚ** 

#### 14:00 Using SDN to optimise user experience for Fiber to the Home

- The importance of common control and active management of broadband services
- Managing subscriber traffic flows through SDN enabled network elements

James Seng, Vice President, 21Vianet Group

#### 14:30 Designing a FTTx Network with the latest technology, standards and best practises

- How FTTH deployment is changing
- · Strengthening the FTTH network
- Ways to minimise the costs of network deployment and likeliness of network failure

Bernard Lee, VP, FTTH Council Asia-Pacific

#### Solving FTTH's connectivity crisis 14:50

Challenges operators are facing in FTTH deployments

Innovative approaches to optimising the

Terry (Teruhiko) Omori, Manager, Fujikura

15:10 Afternoon Tea and Exhibition Viewing

# **Operator Deployment Case Studies**

### Strategies in place to grow the FTTH footprint 15:50 in Taiwan

- Chunghwa Telecom's latest plans to develop and expand the FTTH network in Taiwan · Challenges faced in expanding the
- network and increasing FTTx subscribers Pushing on-demand services with a MOD multimedia bandwidth services
- Dr Wang Ching-Sheu, Senior Director,

# Corporate Planning Department, Chunghwa Telecom

# Adapting infrastructure finance techniques to fund FTTH

- · Basic structures and criteria for infrastructure finance of fiber
- · Why this approach may benefit incumbents
- · The importance of regulatory stability
- Aligning the incentives between financiers, operators, regulator and government

Stefan Stanislawski, MENA Smart Cities Committee Member, FTTH Council MENA

# **FTTH Training and Education**

# Up-skilling Malaysia's telecom workforce to prepare for FTTH deployment

- Training schemes to provide basic FTTH Testing and Measurement, FTTH Service Provisioning & Commissioning, Fault Troubleshooting and Fixing
- How FTTH deployment was achieved in Malaysia and training activities in place in the industry for the next 5 years

Dr Tan Ching Seong, Associate Professor, Multimedia University (MMU)

#### 16:15 Designing a comprehensive FTTH training programme throughout Japan and the world

- Analysing the training systems that have been established today
- Leveraging the skills of world class experts to train network installation engineers
- How the training programme can be adapted elsewhere in Asia

Dr Takuo Kikuchi, Assistant Professor, Polytechnic University

# **Evolution of FTTH**

#### 15:50 Disruptive business models for residential 1Gbps FTTH services

- Momentum is starting to build for 1Gbps FTTH residential service offerings around the world
- New disruptive techniques and business models are emerging - the use of social media and alternative financing techniques
- What are the implications for APAC and how should incumbent and alternate service providers position themselves?

Kevin Ressler, Director, TE Connectivity

#### 16:20 **Examining the standards behind FTTH** interoperability

- How can the interoperability of fiber access equipment encourage the deployment of next generation broadband?
- What is included in BBF .247 and BBF .255 standards, and how will operators / vendors make products compliant to the new standards?

Peter Macaulay, Chair, Application and Solutions Committee, FTTH Council Asia-Pacific

#### 16:40 Closing remarks from chairman

#### Close of Conference Day One, Networking Drinks 17:00 Sponsored by PDC and Senko

15:50

# Main Conference Day Two, 5 June, 2014 (Thursday)

Registration and Coffee

09:10

09:30

10:10

# **Plenary Session**

#### 09:00 Chairman's Opening Remarks

# FTTH strategy as an incumbent operator

- Analysing the world's top incumbent operators with a strong FTTH following
- · The double squeeze of incumbents forced to partner?

Moncef Maghrebi, Associate Director, Arthur D Little

### Deploying fiber networks in Indonesia: What's to come?

- · The major developments in the broadband industry in Indonesia
- · The challenges and future plans to expand network capacity Indonesia

Revolin Simulsyah Nasution, Executive General Manager Broadband Division, PT. Telekomunikasi Indonesia

#### Upgrading to an all fiber access network in China 09:50

- · Continuing the deployment of GPON based FTTH in China
- Examining the impact of China's latest mandates: Mandatory FTTH connectivity in new homes
- What have been the main challenges in fiber deployment in China and what steps have been taken to address these issues?

Wei Leping, Chairman of Technology Steering Advisory Committee, China Telecom

Developing Sri Lanka's FTTH Ultra-Fast Broadband: Plans and goals for the next 5 years

Thilak De Silva, Chief Innovation Officer, Sri Lanka Telecom

#### Morning Tea and Exhibition Viewing 10:30

#### 11:00 Updates on HKBN's core network upgrades and strategies for ARPU enhancement

- Update on HKBN's network development
- · Optimising and upgrading the backend for FTTH network
- · Strategies to increase ARPU in a developed market
- · Business models that ensure ROI of fiber deployment

Lo Sui Lun, CTO, Hong Kong Broadband Network

#### 11:30 Operational, regulatory and technological challenges to FTTH deployment in Asia's emerging markets

- · Challenges for fiber deployment in emerging markets: What lessons are being learnt?
- · Optimising the regulatory environment and legal frameworks for fiber deployment
- Market readiness and demand for emerging markets around Asia-Pacific
- · Reviewing operational and technical challenges to deployment in Asia-Pacific's emerging markets

13:40

Pacific

Arief Musta'in, VP Infrastructure Service and Governance, PT. Telekomunikasi Indonesia

Honourable Deputy Commissioner Carlo Jose Martinez, National Telecommunications Commission (NTC)

Craig Thomas, Director, International Field Marketing, Calix

#### 12:20 **Networking Lunch and Exhibition Viewing**

# Operator Deployment Case Studies

#### Chaired by: Alexis Bernardino, Director, FTTH Council Asia Pacific

#### **Examining the future deployment strategy** 13:40 for FTTH in New Zealand

- New Zealand's ultra-fast broadband programme plans and current status
- · Brining fiber to the home challenges Andrew Deed, Principal Solution Architect, Chorus, Vice-Chairman, Technology and Standards Committee, FTTH Council Asia-

#### 14:00 Continuing the growth of FTTH connectivity in Bangladesh

- · Data centers, cloud computing and other applications
- FTTH network deployment challenges Abdus Salam, Managing Director, Agni Systems

#### 14:20 Maximising the adoption and absorption of fiber technology in rural areas

- · Minimising the cost of deploying fiber to rural
- Key challenges of fiber technology adoption and absorption in rural areas
- Strategies to utilise government infrastructure to deploy fiber to rural areas Panellists:

K.L. Chhabra, CGM, Bharat Broadband Network

Akter UI Alam, CTO, Fiber@Home Bangladesh

Dr Khairuddin Ab Hamid, Vice Chancellor, University Malaysia of Computer Science & Engineering (UniMy)

# **Fiber for Mobile Networks**

- Fiber based solutions for mobile backhaul Meeting the challenges for 4G LTE backhaul
- How can broadband providers assist the mobile operator to better deploy their mobile network more cost effectively?
- Moving the main unit from MSC close to the remote unit and how will the application of CWDM technology plays into this strategy

Akter UI Alam, CTO, Fiber@Home Bangladesh

### 14.10 Opportunities for broadband operators in

- Wi-Fi Offloading and Small Cells for LTE Strategies for capturing the booming market
- Julie Kunstler, Principal Analyst, Components, Ovum

# for small cell and Wi-Fi backhaul

# Transitioning to Gigabit service delivery

- Global market trends in Gigabit communities and key drives for the adoption of these networks
- Architectural impacts of Gigabit service
- Utilising existing infrastructure for near-Gigabit services with G.Fast.

Robert Conger, Director of Product Management, ADTRAN

# **FTTH Market Implementation**

#### 13:40 Evolutionary directions for FTTH facilities with a view on changes and future development of our business environment

Masahide Migata, Executive Manager, Access Networks Division, Network Department Plant Headquarters, NTT West

# Case Study: FTTx Smart Camp

- Running the next generation "smart mine"
- Optimising productivity and how fiber contributes to better monitoring, assessment and operation

Gillian Trenerry, Managing Director, ICT Connect; Director, Fibre Optics NQ

### New Zealand's FTTx Workforce Capability: From OLT to CPE

- Workforce optimisation using the assess, build & connect model
- Sustaining the FTTx workforce
- Transforming career pathways

Michael Hansen, Manager, Network Business Technology, Chorus





# 15:00 Afternoon Tea and Exhibition Viewing

# **Closing Plenary**

# 15:30 Worldwide panorama of FTTx rollout: Figures and open questions

- · Picturing FTTx rollouts in APAC, Europe vs Americas
- · The reasons for success and failures recently
- What are the strategies of today's main players deploying FTTH or FTTX platforms?

Roland Montagne, Principal Analyst, iDATE

# 16:00 Looking ahead into the future of FTTH service differentiation

- Where the world is trending in terms of FTTH deployment
- Differentiating based on service offerings rather than network availability
- FTTx network planning for business services
- How is FTTH landscape changing what will be the next generation network LTE, VDSL2

Julie Kunstler, Principal Analyst, Components, Ovum

# 16:30 Questions & Answers Round-Up

Q&A

Dr Lin Sun, Telecom Consultant, China

Roland Montagne, Principal Analyst, iDATE
Julie Kunstler, Principal Analyst, Components, Ovum

# 16:40 FTTH Council around the world

As a final summary to the FTTH Council Asia-Pacific Conference, join the leaders of FTTH from Americas, Europe, Africa and the Middle East as they form a global picture of the future of fiber deployments. What do operators around the world need to expect and how does it compare with Asia? What are the market drivers? What countries show the most promise and what will the future of the FTTH market look like?

Panellists:

Paneilists:

Monique Morrow, President, FTTH Council Asia-Pacific

Nadia Babaali, Communication Director, FTTH Council Europe

Gilberto Guitarte, Chairman, FTTH Council Americas - LATAM Chapter

Dr Suleiman Al Hedaithy, Chairman, FTTH Council MENA

# 17:30 Closing Remarks from the FTTH Council Asia-Pacific

H. Munasir Choudhury, General Manager, FTTH Council Asia-Pacific

# 18:00 Close of Conference Day Two, Networking Drinks

# 18:30 Start of Official FTTH Council Asia-Pacific Gala Dinner

\* To be confirm