



SYMPOSIUM HANDBOOK

3-6 March 2015

Hotel Istana Kuala Lumpur

ABU DIGITAL BROADCASTING SYMPOSIUM 2015

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WorldDMB is the global industry forum for the DAB digital radio family of standards

We promote DAB / DAB+

We work globally with broadcasters, network providers, car, receiver, chip and equipment manufacturers, governments and official bodies to help countries plan and move to digital radio.

Through workshops, on-air demonstrations and on the ground technical support, WorldDMB can assist with:

- Regulation
- Licensing
- Technical trials
- Network build out
- Production of new digital radio content
- Marketing

DAB+ is the digital radio standard of choice for broadcasters across the Asia Pacific

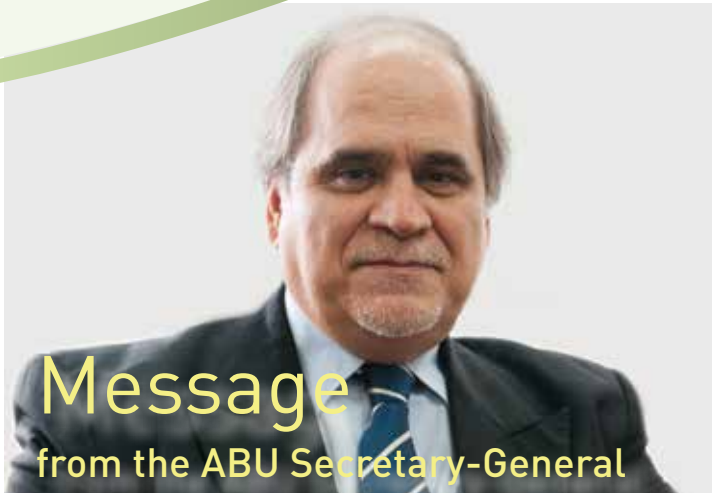
The move from analogue to digital radio is important for:

- Future-proofing radio in a digital world
- Enabling more content choice for listeners
- Providing a richer and more interactive radio experience
- Providing access to a huge range of low cost receivers
- Using a greener technology for radio broadcast
- Long term savings on transmission costs
- Creating new revenue opportunities
- Securing valuable spectrum for radio

Please contact WorldDMB at projectoffice@worlddab.org



Contents



I am delighted to welcome you once again to the ABU Digital Broadcasting Symposium and to the regional broadcast technology hub in Kuala Lumpur. The ABU is a non-profit, non-government, professional association of broadcasting organisations. We facilitate the development of broadcasting in the Asia-Pacific region and we also organise co-operative activities amongst our members, currently more than 270 members in 65 countries.

This eleventh edition of the annual ABU Digital Broadcasting Symposium is one such activity we undertake for the benefit of our members and other stakeholders in the broadcasting industry in the region and beyond.

The rapid technological developments that are influencing the media landscape bring challenges and opportunities to the broadcasting industry. New technologies and the infrastructures based on them pave the way to new value-added services for broadcasters. Converged technologies offer media opportunities to telecommunication operators bringing competition to incumbent broadcasters. Viewers and audiences have more choice and opportunity to access content, including premium services.

Over-the-air broadcasting is often threatened by lack of frequencies available to offer new and future services such as 4K. The ABU together with other partners are making efforts to secure access to broadcast spectrum to maintain plurality and access to information. Once again, DBS-2015 has dedicated a session on spectrum issues and a number of experts will discuss these issues, which the ABU will raise with the World Broadcasting Unions (WBU) and at the next World Radiocommunication Conference, WRC-15.

With multiple devices and delivery platforms, social media consumption habits are changing. More information and choice are now available to people. However, it is the duty of the broadcaster to offer fast, reliable and accurate information to its viewers and listeners. Though it is a delicate balance and a professional judgement, the process can be supported by technology today.

It is imperative that broadcasters review their business models to offer their products on various delivery platforms. Legacy broadcasters can explore maturing over-the-top (OTT) to attract new customers and integrated broadcast-broadband (IBB) technologies for creating more engagement with existing customers and brand loyalty securing new types of advertising on these emerging platforms.

The 2015 ABU Digital Broadcasting Symposium explores all these exciting prospects for the broadcasting industry to go forward with new services, especially in the converging world.

We are happy to welcome participants from across the Asia-Pacific, Europe and North America, and I wish you a very productive and a successful conference.

Dr Javad Mottaghi
Secretary-General
Asia-Pacific Broadcasting Union

2 Sponsors, Exhibitors, Supporters, Media Partners

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Workshop Sponsors



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SPECTRUM

- // Management
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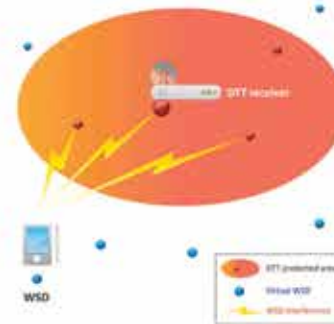
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// ICS SUITE PROCESS



// ICS SUITE ONLINE ACCESS

// TVWS CALCULATIONS AND
MANAGEMENT WITH ICS SUITE

// APPROACH TO BUILD A
WSD NATIONAL DATABASE



NEXT-GEN WORKFLOWS DEMAND SCALE-OUT STORAGE



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Booth #66&67, Malaysia

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HOW A QUIET LITTLE VILLAGE MADE SOME NOISE.

In Ba'Kelalan, Sarawak, nature works its magic silently. It's where Edwin Meru created a blog that showcases his wildlife photography. Within weeks, inquiries start to pour in about the little known village. How do you get to this quaint valley, where rare species of birds fly over emerald green vistas of padi fields, while Mount Murud towers majestic against the bluest of skies? Arranging itineraries over Facebook and email, Edwin started a small ecotourism business, with local lodges serving as a home base for hiking trips to Murud. In the meantime, jobs were created and small industries like rice processing and rock salt making flourished. With a little help from the internet, the village became a destination for international travellers longing to return to the simple life. Ba'Kelalan has finally found its voice.

borneomawa.blogspot.com

Edwin Meru is a winner of the MCMC BEE Award™ (Broadband Empowered Entrepreneur) at KL Converge! given to outstanding individuals and companies who have elevated their business through the use of the internet.

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The Hotel is supported by an efficient road and rail transport system, complemented by the convenient availability of private limousine service, public bus and taxi network.



A majestic landmark, the 23-storey Hotel Istana is a leading corporate address - catering to the concept of "stay-work-relax" for travellers on the move as its 505 guestrooms and suites are designed to suit every individual's personal and corporate needs.

It also offers versatile banqueting and convention facilities and is complemented by authentic tastes from its outstanding restaurants and lounges. Each of Hotel Istana's 505 spacious guestrooms and suites, including State Rooms, are well-appointed with features that recreate that indulgent feeling of home.





News You Can Use

Asia-Pacific Broadcasting (APB) has been the voice of the broadcast and multimedia industry for the past 32 years. It brings news of groundbreaking events and features interviews with decision-makers and professionals in the industry. The publication also tracks and reviews the hottest industry developments and technology trends.

Since 1998, APB has been the official publisher for the annual BroadcastAsia Show Dailies & Directory in Singapore, and a partner in other major trade events worldwide, including NAB Show, BIRTV, IBC, CCBN, InterBEE, Broadcast India, KOBA and CASBAA Convention.

With its vision and mission to become an integral part of the industry, APB has been organising CEO Roundtables, Forums & Seminars since 1999.

Fulfilling Needs

DigiWorkz was established by APB in 2002 in collaboration with Singapore's Ngee Ann Polytechnic. The regional training centre provides skills development training in broadcast engineering and production to broadcasters and production houses in Asia-Pacific.

APB

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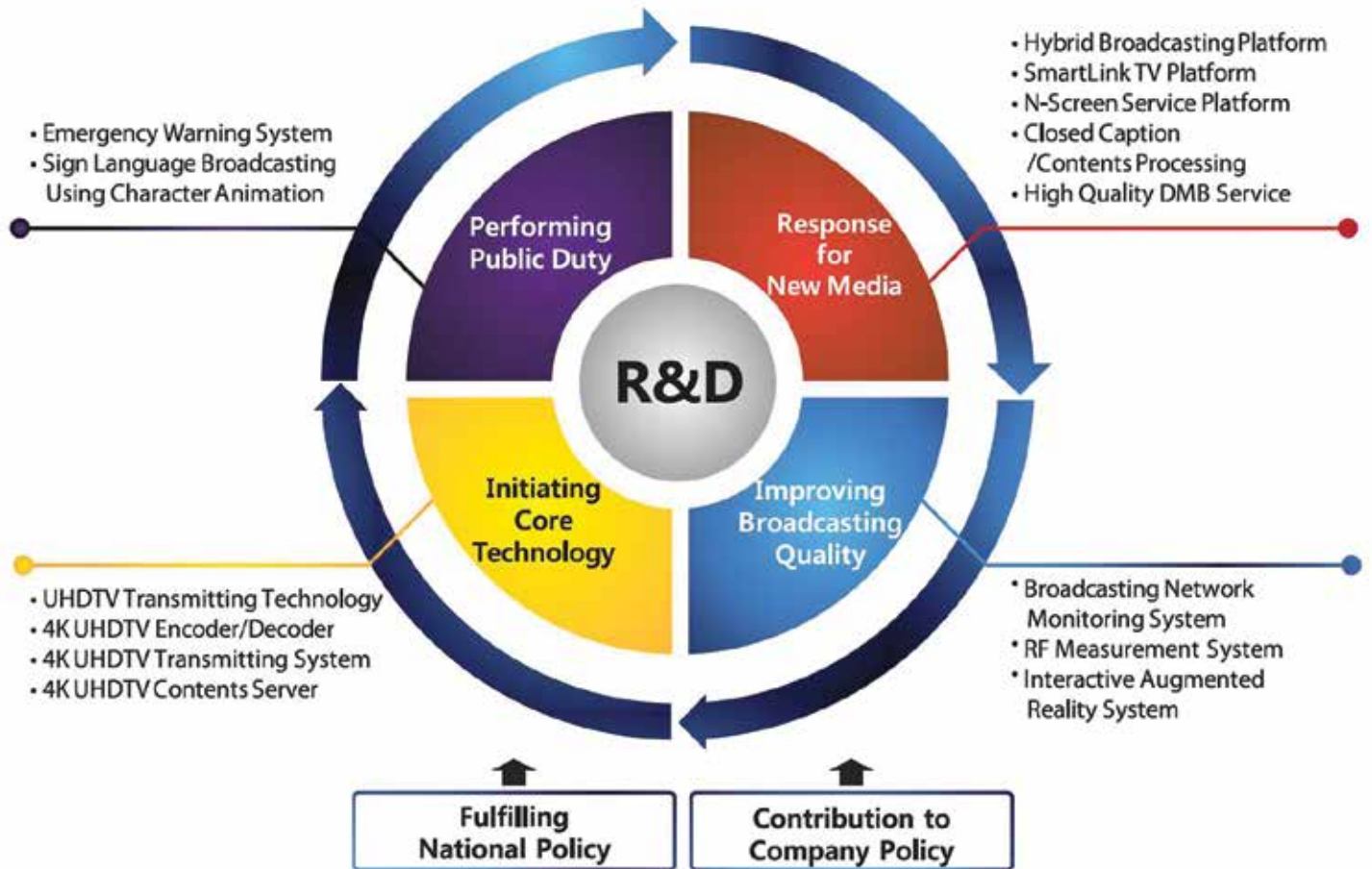
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The Asia-Pacific Training Arm of APB

Fulfilling Needs
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For more information, please contact +65 6282 8456 or e-mail lynn@editecintl.com (APB) / siewmun@editecintl.com (DigiWorkz)

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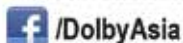
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Dolby, Dolby Audio, Dolby Digital Plus and the double-D symbol are trademarks of Dolby Laboratories.

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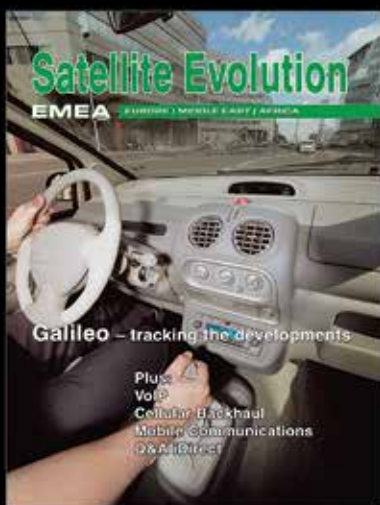
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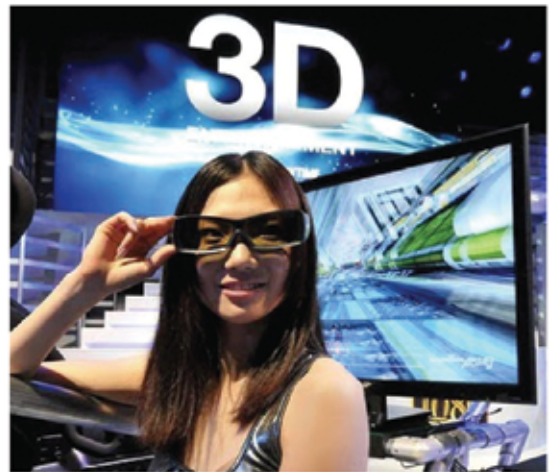
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ABU Digital Broadcasting Symposium

3 – 6 March 2015

Conference & Workshop Sessions Programme

Mon 2 March **SAFIR 2**

Pre-Symposium Workshop – Sponsored by DVB Workshop on DVB-T2: Technologies and Implementations



09:00-10:30	<p>Opening Remarks Dr Amal Punchihewa, Director Technology ABU</p> <p>Latest development and future road map of DTT and HEVC Peter Siebert, Executive Director DVB</p> <p>Worldwide DTT Deployment Status - DIGITAG Simon Fell, Director of Technology & Innovation, European Broadcasting Union</p>
10:30-11:00	Tea Break
11:00-12:30	<p>DVB-T2 System Capabilities including Early Warning Systems Colin Prior, Asia Pacific Sales Manager, Enensys Technologies</p> <p>Latest DVB Transmission Trends: SFN, HEVC, and UHD Eric Li Bin, Regional Manager, Rohde & Schwarz, Regional Headquarters Singapore Pte Ltd.</p> <p>DVB-T2 Lite for Mobile and Radio Lachlan Michael, R&D Manager, Sony</p>
12:30-14:00	Lunch & Networking
14:00-15:30	<p>Next Generation DTT: The Introduction of DVB-T2 with HEVC in Germany Elmar Möller, Product Manager Innovations, Media Broadcast</p> <p>Receive Technology (STB, Chip sets) Laurent Le Morvan, Business Development South East Asia, STB & Gateway Business Unit, STMicroelectronics</p> <p>Implementations of T2 Martyn Horspool, Product Manager - TV Transmission, GatesAir</p>
15:30-16:00	Tea Break
16:00-17:00	<p>Interactivity for Broadcast Channels Andy Hickman, CTO, Digital TV Labs</p> <p>Latest Trends in Broadcast Content Protection Chrystophe Clement, Principal Solution Architect, Nagravision</p>
17:00-17:40	<p>Closing Remarks and Q&A ABU, DigiTag, DVB</p>

Tues 3 March **Mahkota 3** >>> DBS Workshops

Mahkota 3

09:00-10:30

WORKSHOP Sponsored by **ERICSSON**



From DVB-T2 to Virtualised Headends – What will Delivering TV Services in the Future look like?

"Join me for this session where we look at how today's new technologies will enable a sea change in how TV is delivered and what future trends to look out for in enabling the next generation of TV services."

Presenters:

Khush Kundi, Head of Compression Solutions, APAC, Ericsson

Also visit Booths #48 & 49

10:30-11:00

Tea Break

11:00-12:30

WORKSHOP Sponsored by **MediaGuru**



Digital Archiving of Audio-Visual Content and Digitization Value Chain for Broadcasters

Presenters:

Sushil Khanna COO, MediaGuru

Poonam Sharma Director–Singapore, MediaGuru

Also visit Booths #66 & 67

12:30-14:00

Networking & Lunch & Visit Exhibition

Tues 3 March **DBS Workshops** **Parallel Sessions**

Mahkota 3

14:00-15:30

WORKSHOP sponsored by **WASP3D**



Changing the Content Creation Paradigm

Presenter:

Tushar Kothari, Director & Co-Founder, WASP3D (Beehive Systems Pvt Ltd)

Also visit Booth #32

Safir 2

14:00-15:30

WORKSHOP sponsored by **WorldDMB**



Title of Workshop (TBC)

Presenters: (TBC)

Also visit Booth #5

15:30-16:00

Tea Break & Visit Exhibition

16:00-17:30

WORKSHOP sponsored by **WorldDMB** *continued*

Title of Workshop (TBC)

Presenters: (TBC)

Wed 4 March **Mahkota 3**

>>> DBS Conference

09:00-09:30

OPENING SESSION**Welcome Address***Dr Javad Mottaghi, Secretary-General, ABU***Industry Keynote:****How Asia Pacific Adoption of DAB+ Helps Drive Innovation for Broadcast Radio Around the World***Joan Warner, Vice President of WorldDMB and Chair of WorldDMB Asia Pacific Committee***SESSION 1:**

09:30-10:30

EVOLVING TECHNOLOGIES**Chairman:** Masakazu Iwaki, Senior Manager, Planning & Coordination Division, Science & Technology Research Laboratories, NHK (Japan Broadcasting Corporation) and Chairman ABU Technical Committee**Compact 120-fps 8K Super Hi-Vision Camera System***Dr Hiroshi Shimamoto, Senior Research Engineer, NHK (Japan Broadcasting Corporation)***DVB in the Next Decade***Dr Peter Siebert, Executive Director, DVB Project Office***HEVC/H.265 Standards and Technology Update***Femin John, Technical Account Director APAC, ATEME***Hybrid Radio – What's Been Happening?***Lindsay Cornell, Principal Systems Architect, BBC-UK***The Next Generation Audio and Video Experience for Broadcasters***Craig Todd, SVP, Chief Technical Officer, Technology Strategy, Dolby***Digital Radio Mondiale (DRM) – Delivering to all Your Needs***Ruxandra Obreja, DRM Chairman*

10:30-11:00

Tea Break & Visit Exhibition



11:00-11:30

MINISTERIAL SESSION**Welcome Address**

Dr Javad Mottaghi, Secretary-General, Asia-Pacific Broadcasting Union

Ministerial Address

YB Dato' Sri Ahmad Shabery Cheek
 Minister of Communications and Multimedia
 Ministry of Communication and Multimedia, Malaysia

OFFICIAL OPENING OF THE EXHIBITION BY

YB Dato' Sri Ahmad Shabery Cheek
 Minister of Communications and Multimedia
 Ministry of Communication and Multimedia, Malaysia

11:30-12:30

Session 1: EVOLVING TECHNOLOGIES *continues*

12:30-14:00

Networking Lunch & Visit Exhibition

Mahkota 3 >>> DBS CONFERENCE**Session Sponsored by Korean Broadcasting System****SESSION 2**

14:00-15:30

DELIVERY OF BEYOND HD RESOLUTION**Chairman:** Dr Peter Siebert, Executive Director, DVB Project Office**HDR in Television Broadcasting Services**

Dr Masayuki Sugawara, Deputy Director, NHK Science and Technology Research Laboratories, NHK (Japan Broadcasting Corporation)

Terrestrial 4K UHD Live Broadcasting

Kyeong-Seop Kim, Senior Engineer, Technical Planning Department, KBS-Korea

HDR (High Dynamic Range)

Koji Kumano, Technology Strategy Manager, Technology Planning Department, Professional Solutions Group, Sony Corporation

Delivery and Quality – Assurance of HD - Content

Oliver Linow, Technische Distribution, Deutsche Welle

Title of Presentation TBC

AsiaSat

Safir 2 >>> DBS WORKSHOP

14:00-15:30

WORKSHOP 5 sponsored by **GatesAir****Review of Transmitter Total Cost of Ownership**

Determining the total cost of ownership for a broadcast transmitter involves far more than just its purchase price, efficiency and energy costs. Other key factors include liquid versus air cooling, floor space required, carbon taxes, building characteristics, maintenance and several other factors. The workshop will explain how to estimate TCO and what to look for when updating or replacing an old transmitter system.

*Presenter:***Martyn Horspool**, *Product Manager, TV Transmission, GatesAir*

15:30-16:00

Tea Break & Visit Exhibition

Mahkota 3 >>> DBS CONFERENCE

SESSION 3**NEW BUSINESS MODELS**

16:00-17:30

Chairman: Joan Warner, *Vice President of WorldDMB and Chair of WorldDMB Asia Pacific Committee***DAB+ Hybrid Radio: Use Cases and Business Drivers***Dr Les Sabel, Commercial Radio Australia***The Broadcast and Media Industry trends, Commercial and Technology***Peter Bruce, Director IABM APAC***Monetizing OTT and Multiscreen propositions in APAC Territories***John Kjellemo, Technical Director Advance, Solutions, Conax***Monetising Archives***Sanjay Salil, Managing Director, MediaGuru***Monetising Music: Lessons for Broadcasters***Steve Ahern, Managing Director, Ahern Media & Training Pty Ltd & Co-Owner of www.AsiaRadioToday.com*

Safir 2 >>> DBS WORKSHOP

16:00-17:30

WORKSHOP sponsored by **ATEME****Future of TV: UHD TV and LiveSphere™**

The Workshop will be divided into two sessions.

Session 1: UHD TV/4K Delivery Chain (Contribution & Distribution)**Session 2: 360° video broadcast solution (Livesphere)***Presenters:***Femin John**, *Technical Account Director APAC, ATEME***Abdul Haleem Rahiman**, *Pre-Sales Manager, APAC, ATEME*Also visit **Booth #1**

Mahkota 3 >>> DBS CONFERENCE

SESSION 4

09:00-10:30

CONTENT IN HIGH DEFINITION

Chairman: Jack Nadarajah, Deputy Director of Program Content and Acting Director of Strategic Development Department, Radio Television Malaysia

LED Revolution in Broadcast Lighting

Ajeet Khare, Managing Director, Canara Lighting Industries Pvt Ltd

Making HD TV Drama in Korea: Consideration of the Technical Concerns on TV Drama Production

Ryoon-Sang Yoon, Senior TV Production Engineer, TV Technical Production Division, KBS

Title of Presentation TBC

Yun Hwan Jeong, Senior Producer, Programme Department, Asia-Pacific Broadcasting Union

Title of Presentation TBC

Presenter TV3 (TBC)

Title of Presentation TBC

Presenter TBC

Safir 2 >>> DBS WORKSHOP

09:00-10:30

WORKSHOP sponsored by MediaGeniX

Ever more channels, ever more platforms ... Can your system manage?



Over recent years, technological advancements in the broadcast industry and changes in consumer behaviour have triggered a spectacular increase in new devices, platforms, linear and nonlinear services. Suddenly, broadcasters and platform operators are at the cutting edge of technology, in a race to offer their content to viewers and consumers. Learn from cases from leading European broadcasters how they have tackled this challenge.

Presenter:

Michel Beke, SVP Product Strategy MediaGeniX NG

Also visit Booth #41

10:30-11:00

Tea Break & Visit Exhibition

Mahkota 3 >>> DBS CONFERENCE

Session Sponsored by the ITU



SESSION 5

11:00-12:30

SPECTRUM

Chairman: Kanit Sunchatavirul, Assistant to the Chairman of National Broadcasting Commission - Thailand

Spectrum, Spectrum, Spectrum – Why it is Broadcasters' Most Important Asset

Joan Warner, Chief Executive Officer, Commercial Radio Australia

Interference Free TV White Space Spectrum Management

Yahya Khaled, Senior RF Engineer, ATDI

Title of Presentation (TBC)

Haji Aisharuddin Nuruddin, Senior Director, Network, Technology & Standards Division, Malaysian Communications and Multimedia Commission

WRC-15 Spectrum Issues for Broadcasters

Yuichiro Kushiro, Senior Manager, Planning Division, NHK (Japan Broadcasting Corporation)

Thu 5 March DBS Conference & Workshops

Parallel Sessions

Spectrum Reassignment and DSO Bring New Challenges on Network Monitoring*Luc Haeberlé, Managing Director, Colibrex GmbH (LS telcom Group)***Spectrum for Programme Making and Special Events***Lindsay Cornell, Principal Systems Architect, BBC-UK/DRM*

Safir 2 >>> DBS WORKSHOP

11:00-12:30

WORKSHOP sponsored by **Rohde & Schwarz****DVB-T2 Receiver Compliance Automation***Presenter:***Eric Li Bin**, *Regional Manager, Rohde & Schwarz, Regional Headquarters Singapore Pte Ltd.***Workflow Efficiency - "Connecting islands, not building new ones!"***Presenter:***Chan Tuck Kay**, *Business Development Manager, Broadcast, Rohde & Schwarz Regional HQ Singapore*

Also visit Booths # 4 & 9

12:30-14:00

Networking Lunch & Visit Exhibition

Mahkota 3 >>> DBS CONFERENCE

SESSION 6

14:00-15:30

ENABLING CHANGE SMARTLY**Chairman:** **Simon Fell**, *Director of Technology & Innovation, European Broadcasting Union***DVB-T2 Success Stories in Asia-Pacific***Colin Prior, Asia Pacific Sales Manager, Enensys Technologies***How to Optimize T2 Network Coverage by Utilizing Gapfiller and Lower Power Transmitter***Nils Ahren, Rohde & Schwarz***LTE Mobile Offload –Technology and Business Model for Off-Loading Payload from Low Tower, Low Power Networks to High Tower, High Power Networks***Martyn Horspool, Product Manager, TV Transmission, GatesAi***Experiences from DVB-T2 Rollout: Case Study Malaysia***Milos Pavlovic, Sales Manager Broadcast, LS telcom*

Title of Presentation

MYTV, Malaysia

Safir 2 >>> DBS WORKSHOP

14:00-15:30

WORKSHOP sponsored by **Digital Radio Mondiale****Clever Radio for Smart Countries****Presenters:****Alexander Zink**, *Snr Business Dev Manager Digital Radio, Fraunhofer***Lindsay Cornell**, *Principal Systems Architect, BBC-UK***Ruxandra Obreja**, *DRM Chairman*

15:30-16:00

Tea Break & Visit Exhibition

Mahkota 3 >>> DBS CONFERENCE

SESSION 7

16:00-17:30

SMART TECHNOLOGICAL SOLUTIONS

Chairman: Dr Ahmad Zaki Mohd Salleh, Group General Manager, Engineering Television Networks, Media Prima Berhad

The Need for a Professional Monitoring Strategy when Deploying a Digital TV Network

Guillaume Boutin, Sales Manager, WorldCast Systems

Digital Terrestrial Television (DTT) Signal Monitoring Platform

Mário Rui Santos, Sales Manager, RPROBE

Going Beyond Traditional Backpacks: Advancements in 3G/4G Uplink Systems

Rick Asahina, Director, Business Development, Asia Pacific Region, TVU Networks

Efficient and Coordinated AD Content for a Digital World

Martin Roberts, Production Services Director at Adstream Asia - Asia OnTime

Safir 2 >>> DBS WORKSHOP

16:00-17:30

WORKSHOP sponsored by L S telcom



Lessons Learnt from DTT Network Implementation in Terms of Planning, Coordination, Installation and Verification

Presenters:

Luc Haeberlé, Managing Director, Colibrex GmbH (LS telcom Group)

Milos Pavlovic, Sales Manager Broadcast, LS telcom

Also visit Booth # 7

Mahkota 3 >>> DBS CONFERENCE

SESSION 8

09:00-10:30

CLOUD TECHNOLOGIES IN BROADCASTING

Chairman: Haji Zulkifli bin Abdul Rahim, Principal Assistant Director, Radio Production Section, Radio Television Malaysia

Broadcasting via the Internet is no longer optional (a focus on OTT content delivery)

Charles Seviar, Chief Technology Officer, EMC Emerging Technology Division

New Trends in OTT

David Mitchison, Solutions Manager, Appear TV

Expanding Real World Media in the Cloud

Paul Jones, Sales Director, Front Porch Digital

Availability to the public cloud of broadcasting system

Hiroki Nonoshita, IT Architect, Ikegami

End-to-end live streaming in the cloud

Jew Kok Lim, Director of Sales, APAC, Aspera – an IBM company

Fri 6 March

DBS Conference & Workshops

Parallel Sessions

Safir 2 >>> DBS WORKSHOP

09:00-10:30

WORKSHOP sponsored by DOLBY



Simple and Effective Surround Production Techniques with local production case studies

Presenters:

Greg Price, Sr. Engineer, Dolby USA

Jerry Gui, Regional Senior Staff Engineer, Dolby Singapore

Geoffrey Low, Trainer, Dolby Singapore

10:30-11:00

Tea Break & Visit Exhibition

Mahkota 3 >>> DBS CONFERENCE

SESSION 9

11:00-12:30

**INDUSTRY DEBATE:
IS SPECTRUM ESSENTIAL FOR BROADCASTING**

Moderator: Dr Amal Punchihewa, Director ABU Technology

Kathryn Brown

Strategic Development, Commercial Radio Australia

Yahya Khaled

Senior RF Engineer, ATDI

Haji Aisharuddin Nuruddin

Senior Director, Network, Technology & Standards Division, Malaysian Communications and Multimedia Commission

Martyn Horspool

Product Manager - TV Transmission, GatesAir

Dr Ahmad Zaki Mohd Salleh

Group General Manager, Engineering Television Networks, Media Prima Berhad

Simon Fell

Director of Technology & Innovation, European Broadcasting Union

Safir 2 >>> DBS WORKSHOP

11:00-12:30

WORKSHOP sponsored by EMC²

Sizing and Architecture Design review for Content delivery via OTT & CDN (a practical workshop)

Presenters:

Charles Seviar, Chief Technology Officer, EMC Emerging Technology Division

Samuel Kajindran, NAS Specialist SE, EMC Malaysia

Also visit Booths # 57 & 58

12:30-14:45

Networking Lunch & Visit Exhibition

Fri 6 March DBS Conference

Mahkota 3 >>> DBS CONFERENCE

SESSION 10

14:45-16:00

4K, PRODUCTION, WORKFLOW, MAM AND ARCHIVING**Chairman:** Sanjay Salil, Managing Director, MediaGuru**4K Production – Archiving Systems***Genya Kamada, Systems Solutions Division, Professional Solutions Group, IP&S, Sony Corporation of Japan***The Objects of Archiving***Hossein ZiaShakeri, Senior VP of Business Development and Alliances, Spectra Logic***Workflow Changes in the IP Production Era***Dr Yuan-Xing Zheng, Head of Broadcast Service Architecture, BBC-UK***Affordable and Easy to Use File Based Workflow Disaster Recovery Solution***Brad Redwood, Director Business Development, Playbox Technology APAC*

16:00-16:30

Tea Break

SESSION 11

16:30-17:30

INTEGRATED BROADBAND – BROADCAST SYSTEMS**Chairman:** Magli Alias, Deputy Director, Network & Transmission, Engineering Multichannel Section, Radio Television Malaysia**Advanced Hybrid TV services in Japan and its Future Direction***Dr Yusei Nishimoto, Senior Engineering Manager, Media Planning Bureau, NHK (Japan Broadcasting Corporation)***An Update on Development of Digital Broadcasting in ASEAN***Haji Ibrahim Haji Mohamad, Acting Deputy Director Operations, Radio Television Brunei***Managing the Hybrid Broadcast Facility***Fintan Mc Kiernan, CEO, Ideal Systems S.E.A.***Title Presentation (TBC)***Régis Saint Girons, CEO and Co-Marketing Chairman HbbTV Association*

Speaker' Biographies



Dr Javad Mottaghi

**Secretary-General, Asia-Pacific
Broadcasting Union**

Dr Javad Mottaghi is the Secretary-General of the ABU. Before joining the ABU, he was Director of the AIBD for 12 years. He has 35 years of national and international broadcasting experience in news and programming. Dr Mottaghi holds a PhD Degree from the University of Teesside in England, a Master Degree in Management and Bachelor's degree in Mechanical Engineering from Tehran Sharif University of Technology.

Dr Mottaghi was awarded Elizabeth R Award for Exceptional Contribution to Public Service Broadcasting. He is a member of the board for the World Radio & Television Council, Associate member of The International Academy of Television Arts & Sciences in New York and a member of The International Academy of Television and Radio in Russia.

Dr Mottaghi also received a Life Time Award in 2010 for his 12 years of achievement in AIBD. He was the Director of Radio and TV Sports Department of IRIB for 18 years. His other positions were Director International Relations, TV Social Department, News Department as well as Advisor to the President of IRIB on Sports Coverage.

Dr Mottaghi was Adviser to the Minister of Culture and Tourism, the Executive Commissioner, Qeshm Free Zone and Vice Minister of Iran for Sports and Federations from 1989-1992.



Martyn J. Horspool

**Product Manager - TV Transmission,
GatesAir**

Martyn Horspool is currently Product Manager for Television Transmission at Harris Broadcast in Mason, Ohio. Mr. Horspool has been in the broadcast industry for 41 years, starting with the Independent Broadcasting Authority in the United Kingdom in 1974 as a transmitter engineer. Moving to Harris Broadcast in 1980 started a long career path, leading to his current role, including positions in Program Management, Antenna Engineering, Field Service, Sales Support, Applications Engineering and Bids & Proposals. Mr. Horspool has participated and presented at all major Broadcast conferences Worldwide and has authored numerous publications and technical papers.



Charles Sevier

Chief Technology Officer (APJ region)

Charles Sevier is CTO for Isilon, a part of the Emerging Technology Division of EMC². With a strong background in the media sector, he also provides focus on solutions for Life Sciences, Healthcare, Video Surveillance, Enterprise and other sectors across the Asia-Pacific-Japan region.

Charles has 30 years of engineering experience. Prior to joining EMC he was providing media technology consulting services, and before that was head of Engineering and IT for leading commercial television broadcaster Nine Network Australia. There, he oversaw the business and technology transformation required to adopt a fully digital file-based workflow across News and Presentation, including construction of state of the art broadcast facilities. He has enjoyed hands-on experience at major live broadcast events such as the Australian Grand Prix and Olympics, and was also involved in the first terrestrial free-to-air broadcast of a live 3D sporting in May 2010. He also served as Chair of the Free TV Australia Engineering Committee during the period of government negotiation and development of the analogue TV switch-off / digital frequency restacking process that is now completed in Australia.

Charles has also held positions of Director of Global Television, the leading Australian outside broadcast and studio facilities provider, and Director of TX Australia, the owner and provider of television broadcast transmission facilities in Australia's major metropolitan markets.

Charles enjoys working with adopters of leading technology solutions for digital media and associated analytics of massively scalable big data repositories. He prefers an approach favouring collaborative solutions with leading application partner vendors to yield excellent results for EMC's customers.

Charles Sevier holds a Bachelor of Engineering (Hons) degree from the University of Melbourne, and a Master of Business & Technology (MBT) from the University of NSW / AGSM in Sydney. He is also a member of the Society of Motion Picture & Television Engineers (SMPTE).

Twitter: @CharlesSevier

LinkedIn: <http://au.linkedin.com/in/csevier/>



Guillaume Boutin

Sales Manager, WorldCast Systems

Guillaume Boutin has worked for WorldCast Systems for over 10 years in different areas (Northern Europe, Africa and Middle East, Latin America and Asia). He specializes in

business development within the product areas of audio transport, FM transmission and Radio & TV Monitoring. With many years' experience in putting together custom projects for broadcasters of all types, Boutin is well regarded amongst his clients for listening to their needs and his ability to tailor a complete turnkey project for small private stations and countrywide networks. He specializes in the areas of RF and content monitoring as well as remote facility management.



Femin John

Technical Account Director APAC, ATEME

Femin John is ATEME's Technical Account Director APAC. Femin has been associated with the Broadcast and Cable TV industry for more than a decade.. His background includes extensive experience with Broadcasting, DTH, DTT, Cable TV & CA-DRM businesses and technologies. He holds a Bachelor of Engineering degree in Electronics and Communication and a MBA in International Business from the Indian Institute of Foreign Trade.



John Kjellemo

Technical Director Advance Solutions APA, Conax

John Kjellemo with his 23 years of in Telco and Broadcast experience has an excessive platform to appraise the past and forecast the future. Mr Kjellemo made significant projects both within broadcast and telco all over Europe, in Americas, in Africa and for Asian projects in Mongolia, Nepal, Thailand, Cambodia and Indonesia. He has an intellectual background with a Master of Science degree from the Norwegian Institute of Technology with Summa Cum Laude and also about to close the second master degree in Management and Business from the Norwegian School of Management.



Luc Haeberlé

Managing Director, Colibrex GmbH (LS telcom Group)

Luc Haeberlé Managing Director, Colibrex GmbH (LS telcom Group) Luc Haeberlé has over 15 years experience in the broadcasting field. He has been involved in various projects related to the transition from analogue to digital broadcasting, especially in Asia when he was Director Asia/Pacific Broadcast for Rohde & Schwarz. He recently joined the German LS telcom group being in charge of developing a new subsidiary with specialized services in the areas of implementation, testing, operation and maintenance of wireless networks. Luc Haeberlé holds a Double French-German degree in business administration for technical goods.



Milos Pavlovic

Sales Manager Broadcast, LS telcom

MSc, Dipl.-Ing, Milos PAVLOVIC Sales Manager Broadcast LS telcom AG, Germany Milos Pavlovic has a diploma in Electrical Engineering/Telecommunications. He received his Dipl. Ing and MSc degrees from University of Belgrade, Faculty for Electrical Engineering. Milos has been in the Sales & Marketing department of LS telcom AG since 2012, with 10 years of experience working in the broadcast industry. After joining LS telcom, he has taken over the responsibility for the broadcast customers worldwide.



Mário Rui Santos

Sales Manager, RPROBE

Telecommunications Engineer, with MsC degree in Wireless Communications. He did R&D on telecommunications at IT both in National/ International projects, on: satellite TV, linear fibre optic links, powerline communications, long haul HF radio communications, 4G cellular systems, RFID, real time location systems, Radiolocation and Electronic Toll Collection Systems. As founding partner of Wavecom, he had a role on the development, from scratch, of the whole company, where he assumed management, commercial, operations, scientific activities. He has been leading managing the business development in wireless areas, creating wavesys and rprobe brands, as well as leading Wavecom's operation in Angola.



Eric Li Bin

Regional Manager, Rohde & Schwarz, Regional Headquarters Singapore Pte Ltd.

Eric Li Bin is regional manager at Rohde & Schwarz Regional Headquarters Singapore, responsible for the business development in ASEAN market, product portfolio including Transmitter, Headend, Test and Measurement, and Studio solutions. He has over 12 years of experience in broadcast industry, expertise in baseband signal processing, receiver compliance test, certification test and broadcast middleware. He actively involved in DVB-T2 roll out in ASEAN region.



Oliver Linow

Distribution Department, Deutsche Welle

Oliver Linow joined Deutsche Welle in 1998. At the Bockhacken monitoring station he planned monitoring scenarios for DVB and for DRM shortwave transmissions. As a result, he established DW's worldwide satellite monitoring system for which he developed tailor-made features such as feedback channels using Internet streaming technologies as well as a network management system. In 2006 he transferred to DW's Transmission Department in Bonn, where he is in charge of planning and developing monitoring solutions for all DW's distribution feeds. In 2009 he introduced StreamMon, an in-house development designed for monitoring DW's live Internet streaming (web radio and web tv). From 2012 on Oliver Linow manages the worldwide DW signal monitoring network and heads the quality assessment department.



Ajeet Khare

Managing Director, Canara Lighting Industries Pvt. Ltd.

Mr Ajeet Khare is Managing Director of Canara Lighting, biggest manufacturer of Studio and Stage Lighting System in South Asia. He is a mechanical engineer by profession. He has over 40 years of experience working with various multinational companies. He has widely travelled all over the world and understands global business scenarios. Under his leadership Canara Lighting has acquired an important place in the international broadcast lighting business. His company provides total lighting solution for TV & Film Studios, Auditoriums & Theatres. They have fully integrated manufacturing facility located in India. They are exporting to Asia, European & African markets.



David Mitchinson

Solutions Manager, Appear TV

David joined Appear TV in January 2012. As solutions manager, he is responsible for defining and architecting the company's end to end solutions for the five primary segments; Satellite DTH, Cable TV, IPTV OTT and DTT. David joined Appear TV from Ericsson Television (formerly Tandberg Television) where he performed a number of key roles in his 14 years of service with this company. David started his Broadcasting career with the BBC, where he was a senior engineer within the Transmission Engineering group. A former Biochemist, David is a graduate of the University of Wales.



Chan Tuck Kay

Business Development Manager, Broadcast, Rohde & Schwarz Regional HQ Singapore

Stepped into the Broadcast Industry from 2002, and have mainly dealt in Application and Business Development across Asia-Pacific region. Specialized in End-to-End Broadcast Workflow Solution, having experience gained over the years from Hardware Products (Professional Cameras & Pro Audio Network) to Software Solution (NRCS, MAM and Automation). Currently, representing Rohde & Schwarz Regional Headquarters Singapore as Business Development Manager, Broadcast for R&S DVS and Studio Broadcast Solution.



Tushar Kothari

Director and Co-Founder – WASP3D (Beehive Systems Pvt. Ltd)

Backed by over 25 years of experience in Broadcast Technology, Mr. Tushar Kothari has pioneered in developing Real-Time Broadcast 3D Graphics Solution.

His innovations in the area of content display include :

- WASP3D – Real Time On Air 3D Graphics Solution
- WASP3D Nector - Channel Branding Solution addressing the need of television stations for sophisticated 3D graphics for branding, advertising and promotional purposes
- WASPi Mimoso - An interactive touch screen based presentation tool
- Virtual Sets and Virtual Simulations to benefit broadcasters and enrich viewer's experience



Lindsay Cornell

Principal Systems Architect, British Broadcasting Corporation

Lindsay Cornell is Principal Systems Architect for the BBC's Future Media division. He leads the work on The Future of Radio and on spectrum matters relating to Programme Making and Special Events (PMSE). He is currently chairman of the World DMB and DRM Technical Committees, and of the CEPT WGFM PT51 on PMSE, helping to define the future spectrum framework for wireless microphones and cordless cameras.



Colin Prior

Asia Pacific Sales Manager, Enensys Technologies

Colin joined Enensys in 2012 and is responsible for sales and business development of Enensys products throughout the Asia-Pacific region. He is based in Thailand and is assisting many broadcasters and operators with their deployment of DVB-T2 / SFN transmission networks.

Colin spent his early career in software development and electronics design with Thorn Lighting's Theatre Lighting Division, working on TV Studio projects for the BBC and other broadcasters. He then moved to Aregon International and later Bishopsgate Systems in engineering management roles in the financial trading room and broadcast data systems markets. He joined VG Broadcast in 1992 as Technical Director, leading the development and market launch of the first PC-based teletext and subtitling systems.

In 1995 he moved to Eyretel Limited as Operations Director, working in the voice recording and call-centre sector in both the UK and the USA, before moving to SysMedia in 2000 as Commercial Director with responsibility for their digital interactive TV, teletext and test/measurement business units.

Colin moved to Strategy & Technology Limited (S&T) in 2006 as Director of International Sales with responsibility for sales and business development of S&T's products and services for digital interactive TV including carousel playout systems, receiver middleware and applications.

Colin is a Chartered Engineer and holds a Bachelor of Engineering Honours degree in Electrical and Electronic Engineering from the University of Bradford. He is a member of the Institute of Engineering and Technology.



Dr Hiroshi Shimamoto

Hiroshi Shimamoto, Senior Research Engineer, NHK (Japan Broadcasting Corporation)

Hiroshi Shimamoto received the B.E. degree in electronic engineering from Chiba University in 1989, M.E. and Ph.D degrees in information processing from Tokyo Institute of Technology in 1991 and 2008, respectively. In 1991, he joined NHK (Japan Broadcasting Corporation). Since 1993, he has been working on research and development of UHDTV (ultrahigh-definition TV) cameras and image sensors at the NHK Science & Technology Research Laboratories. In 2005-2006, He was a visiting scholar at Stanford University. He is a member of the IEEE.



Peter Bruce

Director IABM APAC

Peter Bruce is a 25-year-plus veteran of the broadcast and media industry. After gaining an Engineering Higher National Diploma in Broadcast and Communications at Ravensbourne College, London in 1987, he began his career at Digital Visions, Austria as a studio engineer. Here he maintained one of the first digital production and linear post production studios seeing the moved from analog to digital.

He then worked with the innovative audio and video pioneering company AMPEX and was based in two regions. Firstly as a senior field service engineer in Fribourg, Switzerland (installing and maintaining systems and equipment in Switzerland and Eastern European countries) and later transferring to Athens, Greece (with customer service responsibilities across the Middle East).

In 1990 Peter began work for Sony Broadcast Middle East in Dubai and gained experience of all broadcast products across the production chain. Installing, maintaining and designing systems across the Middle East, he gained experience of the technology in the traditional video workflow.

In 1995 he moved to Hong Kong with BTS (Broadcast Television Systems) as Customer Service Manager for Asia and saw market growth with its merge into Philips Broadcast in the APAC region. Peter transferred responsibilities to represent the Production Switcher Business Unit in APAC and had several roles within the company including pre-sales, product marketing, business development of the news production products, working with the business units such as Ignite and Media Fuse. These News Production solutions were innovative tools for the efficient repurposing of content to multi-platforms. He witnessed the purchase of the company by Thomson Broadcast and the merger with Grass Valley plus the technology move from analog to digital and onto new media.

In 2009 he took a break from Grass Valley and worked for two and a half years with the Vitec Group, representing the RF brands of Nucomm and IMT as the regional sales manager for APAC. Here he gained experience in the technology of RF mobile and fixed links, growing the business for the Vitec Group in the region.

Returning to Grass Valley in 2011 as Channel Management Director for APAC, Peter headed up and grew the re-seller network across the APAC region.

As of 2014 Peter is using his knowledge and experience of the Asia territory, mixed with his engineering and commercial background in the broadcast and media companies, working for the IABM as Director APAC. Establishing and setting up the APAC region from the Singapore regional office, growing the membership and addressing the needs of the IABM members.

Peter has been published in the broadcast engineers' reference book, *Mixers and Switchers* and presented papers at the Koba 2012 (Seoul, S. Korea) on *Camera Imaging Technology*; at BIRTV (Beijing China) on *Advances in Video Technology*; at ABU 2012 (Kuala Lumpur, Malaysia) on *Innovations in the Live Production Ecosystem* and at ABU 2013 (Kuala Lumpur, Malaysia) on *Nonlinear Production Philosophy*.



Paul Jones

Sales Director, Oracle-Front Porch Digital
As Sales Director for Front Porch Digital, Jones is responsible for Asia Pacific sales of the DIVASolutions suite, which provides an

integrated workflow to Migrate, Manage and Market your media. Paul has been with Front Porch for 7 years and has been instrumental in helping drive market share up to 80%. Following his technical education in the UK he began working for broadcast equipment vendors and has experience of analogue video, through digital and finally the complex file based workflows of today. Responsible for the Singapore office, Paul has worked in APAC for 25 years and lived here for 18.



Dr Peter Siebert

Executive Director, DVB Project Office

Peter Siebert is the Executive Director of the DVB Project Office in Geneva, where he is responsible for all operational aspects of the DVB organization. Prior to this he has been with Philips Kommunikations AG (PKI AG) in Nürnberg/Germany, SES-ASTRA in Luxembourg and Siemens Schweiz AG in Zürich/Switzerland. His professional carrier spans all aspects of audio-video technology such as video transmission over telecommunication networks (PDH/SDH), satellite and IPTV networks. He has been responsible for several ETSI specifications in the area of satellite as well as for DVB standards. He holds several patents for various aspects of audio-visual data transmission.

Dr Peter Siebert received his M.Sc. degree in 1984 and his Ph.D. degree in 1989 in physics from the University in Frankfurt, Germany. In addition he holds a degree in economics from the University in Hagen, Germany and an MBA from the Open University in Milton Keynes, UK.



Dr Fintan Mc Kiernan

CEO, Ideal Systems Singapore

Fintan joined Ideal System Group in 2011 to establish a S.E.A. hub office in Singapore, which now includes offices in Kuala Lumpur and Jakarta. Ideal (SEA) has delivered broadcast projects to operators including Sony Pictures, Fox Sports, Astro and Globecast, Encompass, SingTel, Brand New Media and MediaCorp. In January 2014 Fintan launched SoftCast Technologies, a new software based broadcast product ecosystem for the Asia market.. Fintan joined Ideal Systems having established OmniBus Systems APAC head office in Kuala Lumpur in 2008 (now GV) where he was responsible for the introduction of iTX Payout and Automation in Asia including deployments in Tokyo, Hong Kong, Malaysia, Singapore, Indonesia and Australia.

Fintan previously held roles with Piercom Software as Director of Government Services, British Telecoms, Enterprise Connectivity Unit and Gateway 2000, UK and was Sales Director at DigiSoft TV in Italy for DVB-T solutions and USA for IPTV solutions sequentially.



Dr. Yuan-Xing Zheng

Head of Broadcast Service Architecture, British Broadcasting Corporation

Dr. Yuan-Xing Zheng is BBC's Head of Broadcast Service Architecture and currently is responsible for broadcast common services architecture, including file-based delivery, transcoding, broadcast interfaces control, and IP-based broadcast contribution network. She is also responsible for setting BBC's policies and standards on contribution audio and video codec.

Dr. Zheng joined the BBC in 2000, and has been involved in many interesting BBC projects, from Radio camera amplifier design, real time audio signature abstraction, the Olympics network architecture, through to the BBC's Next generation Network pilot. She is also very active in EBU committees and chaired 'IP Measurement' and 'Service Level Agreement' working groups. Dr. Zheng holds a PhD degree in Satellite Engineering from University of Surrey, U.K.



Craig Todd

Senior Vice President and Chief Technology Officer, Dolby

Craig Todd is Sr. Vice President and Chief Technology Officer for Dolby Laboratories. He has a Degree in Physics from the California Institute of Technology, and has been with

Dolby since 1977.

With more than 40 years of experience, Craig has been involved in many state-of-the-art entertainment technologies. He designed the surround sound matrix system that enabled 35mm film prints, and stereo media, to deliver surround sound. Craig led the development of Dolby Digital and was heavily involved in the effort to set the Digital TV standard for the U.S. He is considered an expert in many areas of audio/video technology. His current activities include bringing wide color gamut high dynamic range imagery into the home via both legacy, and new electronic media, formats, as well developing and bringing to market next generation audio technologies. Craig has participated in a variety of standards setting activities including ITU-R, DVB, SMPTE, AES, IEC, CEA, and ATSC.

He is Vice-Chair of ITU-R Working Party 6C where he has contributed to many of the ITU-R audio and video Recommendations, and he was recently re-elected to the Board of Directors of the Advanced Television Systems Committee. Craig is a Fellow of both the AES and SMPTE, recipient of the SMPTE Samuel L. Warner Medal for achievement in motion picture sound, recipient of an Emmy for his loudness metering work in ITU-R, and holder of more than 20 patents.



Rick Asahina

Director, Business Development, Asia Pacific Region, TVU Networks

Currently a Director of Business Development for TVU Networks, Asahina has more than 30 years experience in the broadcast technology industry, and has worked in various capacities

of sales, marketing, and product management for organizations throughout Asia, Latin America and the United States. After receiving an engineering degree from Ritsumeikan University in Kyoto, Japan, Asahina spent 25 years of his career at Sony working with broadcast, security, medical, digital cinema and display technologies. Asahina is based in TVU's headquarters in Mountain View, CA.



Michel Beke

SVP Product Strategy, MediaGeniX NG

Michel is co-founder of MediaGeniX. Designing robust media solutions that enable broadcasters to optimally run and develop their media business is Michel's passion. Active in the broadcasting business

since 1993, Michel evolved from development through analysis to business consulting as the business evolved from single channel linear TV to multi-channel linear and on-demand services. Before working in the broadcast industry, he worked on image compression for use in document management systems. Michel holds a Master's Degree in Computer Science.



Hiroki Nonoshita

IT Architect, Ikegami Tsushinki Co Ltd

Hiroki Nonoshita joined Ikegami Tsushinki.co.ltd in 2005. Since 2006, he had been developing a recording software, driver softwares and desktop applications as a software engineer. In 2012 or later, he began

doing a survey of filebase systems using IT resources such as server virtualization and cloud computing as an IT architect.



Martin Roberts

Operations Director, Adstream

Martin Roberts has over 20 years of experience working in the Broadcasting industry. Worked in London for 10 years, before moving to Dubai to launch the Middle East's first fully digital pay TV platform - Showtime OSN. Then moved

to Abu Dhabi to launch the largest production facility in the Middle East - twofour54. Now working as the Operations Director - Asia for Adstream.



Brad Redwood

Director Business Development, PlayBox Technology APAC

With over thirty years' in the broadcast industry working with television, production and new media products, I joined PlayBox Technology Asia Pacific as Director of Business

Development. I began my broadcast career as a trainee at National NINE Network Australia studying electronics and communications and achieving promotion to senior management. Prior to joining Playbox, I was a Manufacturers Rep, VP International Sales & Marketing at Masstech, Director of Operations at Network TEN and Product Specialist for Pinnacle. I live in Berowra in northern Sydney, Australia with my amazing wife. I'm passionate about television, gardening and sailing my SunMaid trailer yacht.



Dr Masayuki Sugawara

Deputy Director, NHK Science and Technology Research Laboratories, NHK (Japan Broadcasting Corporation)

Masayuki Sugawara received the B.S. and M.S. degrees in electric communication engineering, Ph.D. degree in electronic

engineering from Tohoku University, Sendai, Japan. He joined NHK (Japan Broadcasting Corporation), Tokyo, Japan, in 1983. Since 1987, he has been researching solid-state image sensor, HDTV camera, and ultra-high definition television system at Science and Technology Research Laboratories (STRL). He was an associate professor at the University of Electro-Communications in Tokyo from 2000 until 2004. He has been attending ITU-R SG6 meeting since 2004 and been active in the working parties that deal with programme production. At present, he is Deputy Director of NHK STRL. He is a member of IEEE, SMPTE, IEICE and ITE.



Dr Amal Punchihewa

Director ABU Technology

Dr Amal Punchihewa is the Director of ABU Technology. He possesses nearly 30 years of experience in all three sectors of broadcasting; viz Academia, Research and Industry in senior broadcasting technology and ICT roles, including research and developments, regional capacity building in media and head of engineering of national TV-Sri Lanka, having started career as a computer engineer.

Amal graduated with Master of Electronics Engineering (Digital Video Signal Processing) at the Technical University of Eindhoven, PhD on image and video compression artefacts. He has published over 100 scholarly articles in reputed journals and conference proceedings. Amal is a Chartered Professional Engineer-CEng, Fellow of IET(UK), Senior Member of IEEE(USA) and Member of IPENZ, New Zealand. He is also a Vice-Chair of WBU-TC (World Broadcasting Union-Technical Committee).



Andy Hickman

CTO, Digital TV Labs

After working at Philips Research Laboratories on MHP and TV-Anytime, Andy joined Cabot Communications as a PM delivering a number of digital TV receiver platforms. Andy then joined Tektronix, heading up their video test development team in Bristol. At Digital TV Labs he leads the R&D team responsible for delivering new testing products, which include the official CI+ Test Tool, Ligada HbbTV test harness, and the HbbTV 1.5, UK Freeview Connected, TNT2, TDT Hibrida and OIPF receiver test suites. Andy is a member of the HbbTV Association Steering Group, a Chartered Engineer and holds a first class honours degree in electrical engineering from Cambridge University.



Laurent Le Morvan

Business Development South East Asia, STB & Gateway Business Unit, STMicroelectronics

Laurent Le Morvan graduated in France from University Paris 11 with a Master Degree in Electronic Engineering and from Grenoble Ecole de Management with a Mastère in Marketing.

He joined ST in 1993 as a Product Marketing Engineer. In 1998 he relocated to Singapore and then Shanghai to spearhead the business development of ST Analog Power & MEMS division in Asia Pacific.

In November 2008, Le Morvan joined back the South Asia Sales & Marketing organization based in Thailand then Singapore to have STMicroelectronics STB & Gateway solutions enabling the Digital Services Convergence in South East Asia homes.



Greg Price

Sr Engineer, Dolby

Greg Price is a Sr. Engineer for Dolby based in San Francisco, California USA. He is responsible for supporting broadcast and post-productions facilities in North and South America as well as the Asia Pacific Region. He works closely with broadcasters such as HBO, Starz, Comcast and AT&T to support the implementation continuing use and delivery of high quality Dolby platforms. Mr. Price has worked with Dolby since 2010 and has contributed and supplied supported to events such as the Grammy's and Academy Fantasia, Before joining Dolby, Mr. Price was working at Discovery Channel's US post production facility supporting the post production environment. He holds a BM degree in Music Production and Engineering from Berklee College of Music in Boston, Massachusetts USA.



Geoffrey Low

Trainer, Dolby

Geoffrey Low is a top-tiered professional audio engineer based in Singapore, highly sought-after for audio work in studio, "live" and broadcast. Having engineered for well-known broadcasters and artistes both locally and internationally, he has earned an acclaimed reputation in his music mixing.

Geoffrey graduated from London City University with a M.Sc. in Music Information Technology and is presently a senior lecturer at Singapore Polytechnic; he plays a key role in developing the course structure of Music and Audio Technology.

Since 2007, he has been involved with Dolby as a trainer for its broadcast products and has conducted several surround production training for broadcasters and educational institutes. Being an advocate of surround-sound broadcast, Geoffrey is a pioneer trainer in the Dolby Champions Program.



Joan Warner

CEO, Commercial Radio Australia/ WorldDMB

Joan Warner is the Chief Executive Officer of Commercial Radio Australia which represents 99% of all commercial radio broadcasters. Ms Warner was responsible for the planning, rollout and implementation of DAB+ digital radio in the five metropolitan capitals covering up to 60% of the Australian population and continues the DAB+ implementation for commercial radio broadcasters across regional Australia.

In her role as CEO she also oversees the whole of industry marketing campaign, Radio Codes of Practice, audience survey contracts and industry copyright agreements. Ms Warner is responsible for the annual National Commercial Radio Conference, Siren Creative Awards and Australian Commercial Radio Awards.

Ms Warner has worked at senior executive levels in the private and government sectors and holds four degrees including a Master of Business Administration and a Master of Education.



Kathryn Brown

Strategic Development, Commercial Radio Australia

Digital Radio Project Manager, Kath Brown works with Commercial Radio Australia's digital technical advisory committee to further develop the DAB+ platform. She

works with regional broadcasters and the regional digital working group to implement trials and develop the costing and technical framework for regional roll out in Australia. Kath works closely with retailers, manufacturers, the automotive industry and mobile phone manufacturers to introduce DAB+ into phones and cars. Kath has an Economics degree, a business and strategic focus and has worked in newspapers and radio for most of her career.



Dr Les Sabel

Managing Director & Owner S Comm Technologies

Les has over 30 years of experience in communications systems, including digital radio (DAB/DAB+/DMB and DRM), mobile communications (2, 3, 4G), wireless broadband and satellite communications. Les founded S-Comm Technologies Pty. Ltd. in 2008 to work with the Australian radio industry on the introduction of DAB+ digital radio. S-Comm has provided services to many Australian and international companies and currently provides ongoing independent engineering consultancy to Commercial Radio Australia. Previously Les has held senior positions in companies including RadioScape Ltd. (UK), Verticalband (UK), Lucent Technologies (UK/USA) and the Institute of Telecommunications Research at the University of South Australia. His expertise covers the development of state-of-the-art communications infrastructure and receiver equipment, business development, product and project management. He has worked with companies across the globe to deliver new products and services.



Hossein ZiaShakeri

Senior VP of Business Development and Alliances, Spectra Logic

A key associate since 1984 and the former vice president of advanced engineering, ZiaShakeri was named senior vice president of business development and alliances in

2004 to help maintain the company's leadership position in product innovation and business success. ZiaShakeri has more than 20 years experience in digital and analog hardware design; firmware/software development; and design engineering and management of storage subsystems. He currently leads Spectra's vertical initiatives, including media & entertainment. ZiaShakeri earned a bachelor's of science degree in electrical engineering from Georgia Southern University in 1982.



Masakazu Iwaki

Senior Manager, Planning & Coordination Division, Science & Technology Research Laboratories, NHK (Japan Broadcasting Corporation)

Masakazu Iwaki joined NHK (Japan Broadcasting Corporation) in 1990. From 1994 to 2008, he has developed electroacoustical transducers for broadcasting use (directive microphone for SHV sound pick up, for example) at the NHK's Science and Technology Research Laboratories. In 2008, was transferred to NHK's Engineering Administration Department engaging in media planning and international affairs. From 2012, he has worked as in charge of public relations and planning division in the NHK Science and Technology Research Laboratories. He is a member of the Institute of Electronics, Information and Communication Engineers (IEICE), Audio Engineering Society (AES), Acoustical Society of Japan (ASJ). Mr Iwaki was appointed the Chairman of the ABU Technical Committee in 2014 after serving as a vice-chairman since 2009.



Ruxandra Obreja

DRM Consortium Chairman

Ruxandra Obreja is Head of Digital Radio Development in the BBC World Service Group, currently concentrating her efforts in leading the DRM Consortium, a not for profit international organisation.

Ruxandra first joined the BBC in 1985 as a journalist and worked as Head of the BBC Romanian Service, Editor of the BBC European Region and later as Commissioning Editor with BBC English Networks and News.

In 2006 Ruxandra was appointed Head of Business Development, BBC World Service and started getting involved in the work of the DRM Consortium.

In March 2008 Ruxandra was first elected Chairman of the DRM Consortium with the avowed aim of ensuring that the various stakeholders work towards the same goal: the global and mass scale take up of the DRM standard. Ruxandra was unanimously re-elected several times to this position (most recently in March 2014). Ruxandra has spoken at various conferences and written articles promoting digital radio and DRM.



Yahya Khaled

Senior RF Engineer, ATDI South Pacific

Yahya is currently a Senior RF Engineer at ATDI South Pacific. He joined ATDI after he completed his Master's degree in Wireless Communications from University of Sydney.

From his experience as a technical lead in projects for DVB-T2 rollout and private 2G and 4G networks, he gained in-depth knowledge in spectrum management issues; frequency assignment, interference analysis and technology co-existence issues.

Today, Yahya is in charge of ATDI's technical consulting and training programs for regulators, military agencies and radio communications operators in Asia Pacific region.



Ryoong-Sang Yoon

**Senior TV Production Engineer,
TV Technical Production Division,
Korean Broadcasting System**

Ryoong-Sang Yoon is a Senior Video Engineer in the TV Technical Production Division of KBS(Korean Broadcasting System). He received a Bachelor's Degree in electric engineering in 1996 and a Master's Degree in Broadcasting & Communications in 2013. Since joining KBS in 1995, he has worked at the field of TV production. He has lots of experience in lighting and most of his career was filled with as a lighting director. He is in charge of the drama technical system and role as a video engineer.

Before joining office of The National Broadcasting and Telecommunications Commission (NBTC), he has 10 years experiences with world leading Telecom Company and 10 more years with multi-national 3G mobile operator in Thailand. He has in-depth technical backgrounds in various telecommunications & broadcasting technologies e.g. 2G/3G/4G cellular, mobile applications & services, TV and radio digital broadcasting technologies, spectrum planning and management, national technical standards & specifications development, etc.

He has degree in MBA and Electrical Engineering from Thailand's top university and has also earned executive certificates in management from leading institutes.



Kyeong-Seop Kim

**Senior Engineer, Technical Planning
Department, Korean Broadcasting
System**

Kyeong-Seop Kim is a Senior Engineer in the Technical Planning Department of KBS (Korean Broadcasting System). Since joining KBS in 2006, he has worked on Broadcasting network planning (including UHD TV).



Genya Kamada

**Business Development Manager,
Solution Business Development
Department, System Solution Business
Division, Sony Corporation**

Genya Kamada is business development manager for archive solutions. His role is to develop Sony's archive solution business in the global market. Now focusing on promoting the Optical Disc Archive for long term archiving in various market segments.

Prior to his current role, he was a product planning manager for media asset management solutions, including Media Backbone Sonaps and HDXchange.

Mr. Kamada also spent 4 years in Germany as a product marketing manager in the Broadcast & Profession Marketing Division of Sony Germany, where he was in charge of marketing new data storage products. He has brought much success in European market by delivering system solutions not only to broadcast customers, but also manufacturing companies, financial companies, and scientific research organizations.



Koji Kumano

**Technology Strategy Manager, Technology
Planning Department, Professional
Solutions Group, Sony Corporation**

Koji Kumano is a Technology Strategy Manager in Professional Solution Group which covers Broadcast and Content Creation Solutions.

Prior to his current role, Mr Kumano was working in Sony Mobile Communications where he held various roles in industry collaborations for mobile phone related emerging technologies.

Mr Kumano is an industry veteran having spent the last 25 years working for Sony not only in the Professional Solutions Group but also in Corporate Technology Strategy and Sony Mobile Communications. He has been a technology strategist and began his illustrious career at Sony Corporation in 1990.

Mr Kumano holds a Bachelor's degree from Keio University, Faculty of Science and Technology.



Sanjay Salil

Managing Director, MediaGuru

Sanjay Salil is a media entrepreneur with more than 22 years of experience in consulting some of the world's leading broadcasters and media companies on technology, content and business strategy. As Managing Director, Sanjay has led MediaGuru through a decade of success, leading the organization in a competitive, complex market and driving a significant growth over the years. Sanjay has overseen launching of broadcast stations and media ventures across South East Asia, Middle East and Africa and has worked with some of the world's largest media and technology firms in his career.

Having a strong understanding of media business, Sanjay is widely invited to speak and share his knowledge, experiences and insights on international forums and has been featured by global publications like CNN, Washington Post among others.

Prior to founding MediaGuru in 2004, Sanjay was a prime-time anchor with one of leading TV station in India.



Kanit Sunchatavirul

**Assistant to the Chairman of National
Broadcasting Commission, Thailand**

Kanit Sunchatavirul is an assistant to the Chairman of National Broadcasting Commission - Thailand, who specializes in Telecommunications and Broadcasting. He is member of The National Broadcasting Commission's Digital Switch Over (DSO) sub-committee and Broadcasting Technology & Standard sub-committee. He is also member of National's Technical Standard of Digital Terrestrial TV (DTT) working group and National Roll-out of Thailand DTT working group. He brings his extensive experiences in providing engineering and strategic planning for Thailand DSO project from the beginning.



Poonam Sharma

Director, MediaGuru

Poonam Sharma is a known face in the Asian media and broadcast fraternity and has more than 19 years of industry experience. As the Director, Poonam leads business development and key account management for MediaGuru

in South East Asia.

Prior to joining MediaGuru, Poonam was an integral part of the India Today Group for the past decade. She was heading a national news channel at the TV Today, India's leading news network. During her career, Poonam also worked with ESPNSTAR Sports for seven years as their lead Presenter/Producer for the Sub-Continent.

She is one of the first few media professionals in India to receive the prestigious Chevening Scholarship to study Media Communication at the Cardiff University (U.K.), an achievement she followed-up with a Management course from the London School of Economics.



Holger Meinzer

Senior Vice President Business Unit TV

Holger Meinzer, Senior Vice President in MEDIA BROADCAST, is heading the Business Unit TV since 2013 and is responsible for the company's digital-terrestrial TV business focussing the switchover to a leading-edge DVB-T2/HEVC-based platform in Germany. Initially he joined MEDIA BROADCAST's Strategy & Business Development department in 2007 and was in charge of a range of investment related and innovation projects in Europe and Asia.

Prior to joining MEDIA BROADCAST, Holger held strategic management positions in the radio industry where he set up new formats and extended broadcaster's distribution strategies to new platforms, i.e. DVB-H, DMB, 3G.

He holds a degree in Media Business Administration.



Sushil Khanna

COO, MediaGuru

Sushil puts more than 25 years of experience at work for MediaGuru, providing strong leadership in delivery, project management and technology with responsibility for managing MediaGuru's new business

initiatives and client engagements globally.

A veteran in broadcast technology and system integration, Sushil has hands-on experience in designing and setting-up futuristic broadcast station infrastructure across Asia and Africa.

Prior to joining MediaGuru, Sushil has worked with Sony Broadcast Professional Systems and Ideal Systems involved in technology planning, implementation and business development at various levels.



Yuichiro Kushiro

Senior Manager, NHK (Japan Broadcasting Corporation)

Yuichiro Kushiro joined the Japan Broadcasting Corporation in 1996. From 2003 to 2011, he worked at the transmission and reception engineering center. He was responsible for the design of transmitters of DTTB stations. After Great East Japan Earthquake, he was dispatched to Morioka station for the support of the immediate recovery of the television and radio network by the damage from the earthquake and tsunami in the region. Since 2011, he has been a Senior Manager in the planning division in the Engineering Administration Department. His current task includes the standardization activities related to broadcasting spectrum in ITU-R.



Haji Ibrahim bin Haji Mohamad

Acting Deputy Director – Operations, Radio Television Brunei

Haji Ibrahim Haji Mohamad presently is taking the responsibility of Acting Deputy Director in RTB since January, 2013. He joined RTB since 1979 and graduated B Eng of Electronics and

Communication Engineering in UK, 1990.

Previously, as Head of TV Programme and also Head of Engineering, his experience include as the member of RTB DTTB - Engineering Task Force, Set-Top Box Task Force and Prime Minister's Office Convergence Task Force. He is also looking after the Interactive TV Project including MHP, MHEG 5 middleware and MPEG4 compression format.

Currently, RTB is the co-chair of ASEAN Digital Broadcasting Initiative and a member of ABU Technical Bureau Committee which he had contributed the updates on Digital Broadcasting.



Alexander Zink

Senior Business Development Manager Digital Radio, Fraunhofer

Since 2000, Dipl.-Ing. Alexander Zink, MBA, works at the Fraunhofer Institute for Integrated Circuits (Erlangen, Germany) as Senior Business Development Manager Digital Radio. Initially he developed the mobile and location based information system UMIS (Universal Mobile Information System). From 2001 on he focused on the professional broadcast systems "Fraunhofer DRM, DAB ContentServer". Since 2002 he is project director for Journaline, an interactive text based information system for digital radio. In addition he works in the fields of AudioServers, software defined radio, and transmission protocols. For Digital Radio Mondiale (DRM) he acts as Vice-Chairman of the DRM Consortium and Vice-Chairman Technical Committee. In addition he is an active member of the WorldDMB Technical Committee and various DAB and DRM work groups.



Jerry Gui

Regional Senior Staff Engineer, Dolby Singapore

As the Regional Senior Staff Engineer at Dolby Singapore, Jerry works closely with the free-to-air broadcasters and pay-TV operators in Southeast Asia to enable Dolby technologies with proper deployment and implementation. He has led the company's efforts to successfully launch Dolby Digital Plus 5.1 surround sound in Singapore, Thailand, Vietnam, Philippines and Indonesia. Jerry was Principal Engineer at MediaCorp Singapore before joining Dolby Singapore in 2011.



Dr Yusei Nishimoto

Senior Engineering Manager, NHK (Japan Broadcasting Corporation)

Yusei Nishimoto joined Japan Broadcasting Corporation (NHK) in 1996 and NHK Science and Technical Research Laboratories in 1999. He was engaged in research on CAS/DRM to manage digital content rights. Since 2014 he has been a senior engineering manager of NHK media planning bureau and has been involved in development activities for advanced IPTV/OTT services.



Haji Zulkifli Bin Abdul Rahim

Principal Assistant Director, Radio Production Section, Radio Television Malaysia

Haji Zulkifli is Principal Assistant Director in the Radio Production Section of Malaysia's public broadcaster, Radio Television Malaysia.

He joined RTM in November 1984. Haji Zulkifli has 16 years experience in radio and TV transmitters, six years in radio studios and five years in research.



Steve Ahern

Managing Director, Ahern Media & Training Pty Ltd & Co-Owner of www. AsiaRadioToday.com

Steve Ahern is an experienced broadcaster, manager and trainer. He is the author of the text book Making Radio and an international specialist in programming, new media, and multi-platform broadcasting. Before founding Ahern Media & Training Pty Ltd and the International Media & Broadcasting Academy (IMBA), he was previously Director of Radio at the Australian Film Television & Radio School and a senior executive at the Australian Broadcasting Corporation (ABC).



Abdul Haleem Rahiman

ATEME Pre-Sales Manager, APAC

Abdul Haleem Rahiman is a seasoned system specialist with extensive experience in tier one system deployments in the Digital TV ecosystem throughout South East Asia and

the Middle East. Well-versed in all phases of project and product life cycles, from initial feasibility analysis to release of production-ready code, he is highly skilled in the development and integration of system architecture and software solutions. RAHIMAN Abdul Haleem has been heavily involved in major migration, integration, upgrades as well as new launch activities including new DTH/Pay TV launch, satellite migration, site-to-site migration, simulcrypt, CAS migration and STB and/or SC swap activities, as well as third party system integration and migration.



Jack Nadarajah

Deputy Director of Program Content and Acting Director of Strategic Development Department, Radio Television Malaysia

Nadarajah Kavalamuthu, also fondly known as Jack Nadarajah to the local audience and his colleagues, joined Radio Television Malaysia (RTM) as Producer/Director of Entertainment Programs in 1982 after completing his degree from National University of Malaysia in Bangi, Kuala Lumpur. He has 22 years of national and international broadcasting experience as Producer/Director before he became the Manager of Entertainment Section of RTM in 2004. In 2009, he was appointed as the Second Principal Director of Strategic Planning Section. And currently, he holds the post of Deputy Director of Program Content and Acting Director of Strategic Development Department of RTM. To his credit, as Producer/Director, he won seven "Anugerah Sri Angkasa" awards, a local version of the Emmy Awards in five consecutive years for Best Director, Best Entertainment Series/Specials as well as for Game Shows.



Magli Alias

Deputy Director, Network & Transmission, Engineering Multichannel Section, Radio Television Malaysia

Magli Alias has been with Radio Television Malaysia for 31 years and has held various positions within the RTM Engineering Division. Magli holds a Degree in Electrical & Electronic Engineering from the University of Nottingham, United Kingdom (1980-1983) and is currently the Deputy Director of Network & Transmission under the Multichannel Section of RTM's Engineering Section.

Magli has been involved in digital TV since mid-1997 and was the Chairman of the Working Party that proposed the DTT Standards recommendation for the country's adoption. Since then has been actively involved in digital TV study and planning.

Magli was responsible for the pilot digital TV project which began in 2007 that deployed the DVB-T standards and MHP middleware. He has been actively involved with the Malaysian Communications and Multimedia Commission and the Malaysian Technical Standards Forum acting as Chairman of the DTT Standards Working Group and a member of the Multimedia Terminal Working Group, drafting standards and specifications. Magli has also been attending the ASEAN Digital Broadcasting Meeting group since 2008.



Khush Kundi

Head of Compression Solutions, APAC, Ericsson

Khush heads up all Business Development and Technical Pre-sales activities for Ericsson's Compression Business across APAC. Working in the industry for almost a decade, he has worked with some of the world's largest broadcasters, operators and services providers in Europe and Asia in providing a range of services including consulting, business development and strategic planning. He is currently an active member of several industry bodies including SMPTE and CASBAA.



Dr Ahmad Zaki Mohd Salleh

Group General Manager of Engineering, Media Prima Berhad

Ahmad Zaki was born in Pahang, Malaysia in July 1965. He received his B.Sc. Engineering (Hons.) from University of Aberdeen in 1989, PhD in Engineering 1994. In 2005, he graduated from Berne University of Applied Sciences, Switzerland with an executive MBA in Strategic Marketing.

He served as a lecturer between 1994 until 1996 in the Department of Electronics & Communications Engineering, University Putra, Malaysia and has published several technical papers in international journals and conferences in the field of packetized communications. He also served as a communications consultant with Globecom Research Sdn Bhd in 1995 until 1996 specialising in communications solutions and design. In July 1996, he joined Sistem Televisyen Malaysia Berhad (or better known as TV3) as an Assistant Manager, Transmission Development and Projects. He was involved in the planning, operations and maintenance of TV3's RF transmitters as well as specific engineering projects. In 2005, he served as the General Manager Engineering for Natseven TV Sdn Bhd. In 2007, he was seconded to Primedia Inc. in Philippines as a part of Media Prima's international venture. He was responsible for the setup of a 120kW VHF solid-state liquid cooled, transmitter system for ABC5, Manila as well as redesigning the internal workflow of the playout centre. He returned to Malaysia in December 2009 and today, he is the Group General Manager of Engineering, Media Prima Berhad. He is now in charge of all engineering operations, production, planning including all aspects of engineering with regards to DTV implementation in Media Prima Berhad.

Dr Zaki has been actively involved with the national committees for the development of Digital TV standards in Malaysia. He chaired the 1st sub-committee in 1997 (WG7) under the then, ITU-Malaysian chapter for the recommendation of the DTV standards to the 'Jabatan Telekom Malaysia' (JTM). The standards was completed, endorsed by all the heads of the various TV stations and submitted to the government in 1999 recommending the DVB-T standard. Upon the inception of Malaysian Communications and Multimedia Commission, he continued his service as a member of various committees under the MCMC some of which includes the set-top-box committee, the national standard radio systems plan (SRSP) committee and many more.



Samuel S. Kajindran

NAS Specialist SE, EMC Malaysia

Samuel has been with EMC Malaysia for almost 8 years and brings a wealth of experiences from Professional Services – implementing solutions and solving problems for our customers. He has experienced several roles within EMC – Resident Engineer, Implementation Specialist and Solutions Architect. In his current role as NAS Specialist for SEA, his area of focus is on EMC Isilon scale out NAS storage, ECS object storage and solutions for industry verticals such as Media, Broadcast, Video Surveillance and Big Data Analytics."



Régis Saint Girons

CEO, HTTV

Régis Saint Girons is a key figure of the digital TV industry with more than 20 years of experience. Régis Saint Girons is today the CEO of High Tech TV (HTTV), a leading software solution provider for digital TV, Régis is also the President of the French HD Forum, as well as the Marketing Vice Chairman of the HbbTV Association. He has previously served as Senior Vice President OpenTV for NAGRA, a Kudelski group company. Prior to NAGRA, Régis Saint Girons was one of the OpenTV co-founder, a joint-venture between Thomson Consumer Electronics and Sun Microsystems. As its European General Manager, Régis was instrumental in positioning OpenTV as a Digital TV middleware world leader. Before that, Régis Saint Girons lead Thomson Research & Development laboratory in Los Angeles during 8 years. He positioned MPEG as the Digital TV solution for DirectTV and ATSC, the US HDTV standard.



Yun Hwan Jeong

Senior Producer, Programme Department, Asia-Pacific Broadcasting Union

Yun Hwan Jeong is on secondment to the ABU from Korea's Educational Broadcasting System, EBS. He began his career at EBS as a producer in 1995 and later became producer of the debate shows 'Teachers, Students and Parents' and 'Roundtable Discussion'. He was appointed vice president of the Producers' Committee at EBS in 2008 and two years later became the committee's president. In 2010, Mr Jeong was chief producer of the live music show 'EBS space Gong-gam'. He became Director of the Cultural Programs Department at EBS in 2014. Mr Jeong took up his ABU position in 2015. He holds a B.A. in Mass Communication and an M.A. in Mass Communication, both from Chungang University in Seoul.



Jew Kok Lim

Director of Sales, APAC, Aspera

Currently responsible for the Aspera business in the APAC region. Held various positions in high technology companies (Autodesk, Avid, Quantum, etc.) over the last 20 years. Worked primarily on providing solutions in the Media sector. In the past three years have been intimately involved in helping companies solve Big Data storage, management, transport and collaboration problems.



Elmar Möller

Product Manager Innovation, MEDIA BROADCAST GmbH

Since beginning of 2014 Elmar Möller is Productmanager Innovations in Business Unit TV with MEDIA BROADCAST GmbH. He's responsible for all technical issues and device related questions in DVB-T2 migration process in Germany. Major topics are the discussion of technical requirements with CE device industry for settop boxes and TV sets. He and his team are creating the device specifications as minimum requirements and dedicated settop box specifications. As technical part of product management team, he's also contact person for security and product related requirements of German private broadcasters. Before he joined MEDIA BROADCAST GmbH, Elmar was product manager Smart TV and head of strategic cooperation with TechniSat Digital GmbH for six years.

than 35 years' experience in senior broadcasting technology roles, including at British broadcaster ITV, where he was Director of Future Technologies (2008-2009) and Controller of Emerging Technologies (2004-2006). Mr Fell, prior to joining the EBU, was Chairman of the Technical Council at the Digital Television Group, the industry association for digital television in the UK.



Nils Ahrens

Area Manager for Pacific and South-East Asia, Rohde & Schwarz

Nils Ahrens has been with Rohde & Schwarz since 2004 and has been Area Manager for Pacific and South-East Asia since January 2012. He holds a Dipl.-Ing. from the University of Cologne in Communication/Information Technology and has more than 25 years in the broadcast field. Before joining Rohde & Schwarz, he was Head of Sales Project Management at Bruel & Kjaer for Sound and Noise Measurement & Monitoring Solutions.



Simon Fell

Director of Technology & Innovation, European Broadcasting Union

Simon Fell has been Director of Technology & Innovation for the European Broadcasting Union since September 2013. He has more

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Digital Video Broadcasting (DVB) is an industry-led consortium of over 200 broadcasters, manufacturers, network operators, software developers, regulators and others from around the world committed to designing open interoperable technical standards for the global delivery of digital media and broadcast services.

DVB standards cover all aspects of digital television from transmission through interfacing, conditional access and interactivity for digital video, audio and data.

DVB dominates the digital broadcasting environment with thousands of broadcast services around the world using DVB's standards. There are hundreds of manufacturers offering DVB compliant equipment. To date there are over a billion DVB receivers shipped worldwide.

Further information about DVB can be found at: www.dvb.org, www.dvbservices.com and www.dvbworld.org.



Ericsson

Ericsson's TV solutions help content owners and operators to maximize content and consumer value by enabling them to utilise multi-platform infrastructure and eco-systems to deliver rich, blended multi-screen consumer experiences on all devices.

Our offering spans the media value chain of content acquisition, creation, management, exchange and delivery to consumers. As a change agent for television, we are shaping the future of TV with our multi award-winning products. Our integrated solutions and extensive TV services are giving operators a competitive edge by expanding their offering, driving new revenues and allowing them to keep control of the total cost of ownership.

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MediaGuru

MediaGuru is a leading global provider of services and solutions to broadcasters and media organizations offering end-to-end services encompassing digital archiving, digital media, turnkey technology solutions and consulting. With over a decade of experience in setting-up state-of-the-art broadcasting stations, new media ventures and revamping the existing infrastructure, MediaGuru has helped media organisations world-over to turn their enterprises into profitable businesses.

MediaGuru through its exclusive joint venture with Brussels based Memnon Archiving Services provides on-site & off-site digitisation services for audio, video, film, photographs and document archives to organisations looking to preserve their legacy content.

With offices in India, Singapore, UAE and South Africa, MediaGuru serves its clients spread across Asia, Africa & Middle East.

For more information, visit www.mediaguru.com



WASP3D

WASP3D offers cutting-edge solutions in the area of content display and presentation for television broadcasters globally. WASP3D's innovative solutions include workflow based On-air graphics solution; Interactive presentation, WASPi Mimosa; Virtual Set With over 500 installations and presence in 40+ countries, WASP3D has helped several broadcasters to package and present their content to improve the viewer experience. Some of our customers include: RTM, Astro Awani, CNBCe, MBC, MTN, Televisa, Ten Sports, TV9, YTN. WASP3D employs more than 100 highly qualified professionals and is headquartered in New Delhi (Noida), India and has offices in USA, UAE, South Africa, Singapore, Bangkok, Mexico and Brazil



WorldDMB

WorldDMB is the global industry forum for digital radio promoting DAB/DAB+ digital radio - the digital radio standard of choice in Europe and Asia Pacific. Its global membership includes public and commercial broadcasters, network providers, receiver manufacturers, chip manufacturers, and car manufacturers. Members collaborate to deliver advice and tailored solutions on all aspects of the switch from analogue to digital radio including

regulation, licensing, technology trials, network build out, marketing and production of new digital radio content. Broadcast radio professionals have access to this body of expertise which is delivered through leading-edge industry events, car manufacturers' workshops, and tailored seminars, as well as the WorldDMB website via the members-only information portal that includes an extensive online ETI library. WorldDMB actively facilitates technical trials and tailored study tours for those countries considering a switch to digital broadcasting.

www.worlddab.org



GatesAir

GatesAir provides complete solutions for over-the-air radio and television broadcasting, leveraging wireless spectrum to maximize performance for multichannel, mission-critical services. Powering over-the-air networks worldwide with unparalleled reliability for nearly 100 years, GatesAir's turnkey solutions enable broadcasters to create, transport and transmit radio and TV content. With customers in more than 185 countries and a global sales and service organization, the company leads the industry in innovation and design breakthroughs, improving efficiency and reducing total cost of ownership. Key product lines include Maxiva TV and DAB radio transmitters, Flexiva AM/FM and digital radio transmitters, and Intraplex audio contribution and distribution systems.

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Ateme

ATEME is the world's leading provider of HEVC / H.265, MPEG-4 / H.264 and MPEG-2 encoding solutions, used widely for broadcast contribution links, distribution, multi-screen live streaming, OTT, and VOD applications. Its commitment to standards and sustained research has brought ATEME the most advanced implementations of video compression technology and a reputation of world-class performance and quality. Based on company owned and internally developed source code and algorithms, ATEME's products include contribution encoders, distribution encoders, transcoders, integrated receiver decoders, multiplexers and network management system. Headquartered in France, ATEME operates worldwide through its distribution channels and support offices.

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MediaGeniX

Put an end to poor legacy integration. MediaGeniX brings the best channel management software to Asia with the answers to your specific needs: WHATS'On. Optimised for the Asian market, our modular solution is not only designed to streamline your current processes, but also to grow along with your most ambitious plan. You can easily launch new VOD services for any platform, outlet or device, and schedule on linear channels and catch-up services, maximising your rights, monitoring progress throughout the workflow, securing clear, organisation-wide communication about schedule changes and rights, and always keeping a clear view on costs and revenues.



Rohde & Schwarz

For more than 80 years, Rohde & Schwarz had stood for the highest quality, precision and innovation in the fields of Test and Measurement & Broadcasting. In post-production, digital film and broadcast studio market, Rohde & Schwarz DVS GmbH is very successful with the highly developed and specially manufactured hardware and software that are applied at the production of popular TV series and Hollywood blockbusters, and enable 4K films for Digital Cinema.

The combined expertise of Rohde & Schwarz and Rohde & Schwarz DVS technology paves the way for many exciting new ideas in file-based broadcasting. The DI workstation CLIPSTER® was the first system in the world to make real-time 4K processing possible. Our reliable, cutting-edge storage technology is tailored to deliver optimum performance for handling any storage capacity. With its new Media Production Hub VENICE, it enables broadcasters to migrate from an existing SDI-infrastructure to an efficient file-based workflow easily. The ingest and production server boasts all the qualities of a classic video server and it also offers users a large number of intelligent options to empower both file-based and baseband workflows.

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Digital Radio Mondiale (DRM)

Digital Radio Mondiale (DRM) is a global, open, green, flexible, efficient, cost effective digital radio broadcasting standard covering all frequency bands:

- **'DRM30'** for the bands below 30 MHz (LW, MW, SW); providing large coverage areas and low power consumption.
- **'DRM+'** for the VHF bands above 30 MHz (bands I/II/III including FM); tailored for local and regional coverage with broadcaster-controlled transmissions.

Both DRM30 and DRM+ share all the features of the DRM standard: audio coding, data, multimedia services, service linking, multiplexing and signalling schemes. DRM provides high quality sound combined with a wealth of enhanced features: Surround Sound, Journaline text information, Slideshow, EPG, and data services, plus the ease of use that comes with digital radio combined with low power consumption and therefore costs savings. DRM is the only audio broadcasting standard to have adopted the xHE-AAC audio codec.

DRM is promoted by an international not-for-profit consortium of broadcasters, manufacturers, network operators, research institutions, broadcasting unions, regulatory bodies and NGO's. Initially, the DRM Consortium was formed by a group of pioneering broadcasters and manufacturers that joined forces to create a universal, digital system.

India, Russia, Southern Africa and Europe are some of the key DRM development markets.

Permanent DRM services are currently being broadcast from all continents, reaching half of the world population: e.g. Bulgaria, Austria, UK, Slovakia, Romania, Spain, Germany, Nigeria, UAE, Saudi Arabia, India, Japan, Malaysia, South Africa, Taiwan, and New Zealand. Many more countries are conducting DRM30 and/or DRM+ trials.

Major chipset manufacturers offer now DRM in their multi-standard platforms while radio receivers, car and mobile manufacturers have demonstrated an increased interest for the DRM solution.

DIGITAL radio mondiale

DRM Project Office, 3rd Floor, Brock House, Langham Street, London W1A 1AA UK

Registered office: PO Box 360, CH-1218 Grand Saconnex/Geneva Switzerland

www.drm.org

LS telcom

LS telcom

LS telcom is the leading supplier of frequency planning, coordination and optimisation solutions for digital and analogue broadcast networks.

Its portfolio includes network planning software, consulting, engineering and measurement services. Training on technologies, standards, and regulations as well as transmitter container installations complete its area of expertise. LS telcom now also provides an unprecedented service; it carries out very cost-effective antenna measurements via remote controlled miniature helicopter.

Its cutting-edge broadcast planning software CHIRplus_BC for TV, DVB-T (& T2 & T2-lite), ISDB-T, ATSC, DTMB, CMMB, FM, LF/MF DAB(+), DRM(+), was the first of its kind on the market for these technologies.

Milos Pavlovic

Sales Manager Broadcast

LS telcom

Im Gewerbegebiet 31-33

77839 Lichtenau / Germany

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Fax: +49 7227 9535 605

e-mail: Info@LStelcom.com

web: www.LStelcom.com



Dolby

Dolby Audio Powered by Dolby Digital Plus

A Dolby Audio™ technology, Dolby Digital Plus™ is part of the HbbTV standard and is used by European broadcasters for delivering 5.1 audio. Already included in broadcast standards around the world for HDTV services, including key terrestrial specifications in China, France, Italy, Poland, Singapore, Sweden, and the United Kingdom, Dolby Digital Plus is now also included by operators in emerging markets such as India and the Middle East.

It is the preferred audio technology of online streaming services such as Amazon Instant Video™, Netflix®, and Vudu®. To date, Dolby Digital Plus has been included in more than two billion products worldwide, including TVs, set-top boxes, Blu-ray Disc™ players, PCs, audio/video receivers and mobile devices.

For more information, please email panna.dey@dolby.com or jerrygui@dolby.com

EMC²

EMC Corporation

EMC Corporation is a global leader in enabling businesses and service providers to transform their operations and deliver IT as a service. Fundamental to this transformation is cloud computing. Through innovative products and services, EMC accelerates the journey to cloud computing, helping IT departments to store, manage, protect and analyze their most valuable asset - information - in a more agile, trusted and cost-efficient way. Additional information about EMC can be found at www.EMC.com

ABU DIGITAL BROADCASTING

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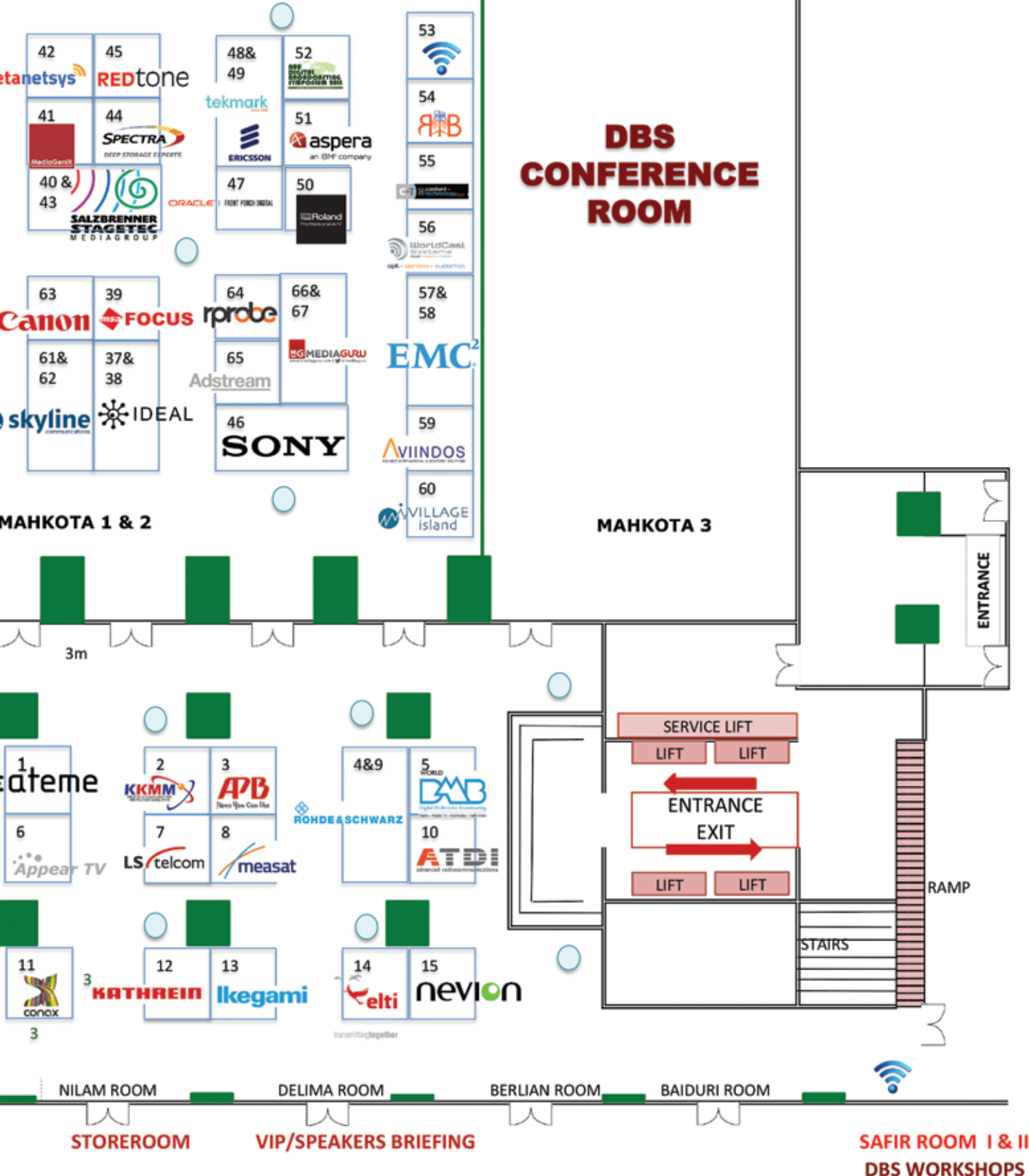
EXHIBITION FLOOR



CONGRESS SYMPOSIUM 2015 3-6 March 2015

SEATING PLAN Hotel Istana, Ballroom Level

Launch/Lucky Draw



Exhibitor Listing

ateme



Booth # 1: Ateme

AEME is the world's leading provider of HEVC / H.265, MPEG-4 / H.264 and MPEG-2 encoding solutions, used widely for broadcast contribution links, distribution, multi-screen live streaming, OTT, and VOD applications. Its commitment to standards and sustained research has brought AEME the most advanced implementations of video compression technology and a reputation of world-class performance and quality. Based on company owned and internally developed source code and algorithms, AEME's products include contribution encoders, distribution encoders, transcoders, integrated receiver decoders, multiplexers and network management system. Headquartered in France, AEME operates worldwide through its distribution channels and support offices.

Contact : JOHN Femin +91 9999034083 / f.john@ateme.com



Booth # 2: Ministry of Communications and Multimedia

The Ministry of Communications and Multimedia (MCMC) makes up of ten organisations - five departments and five agencies.

Through the 10 organisations, MCMC is able to deliver and disseminate government information; monitoring media organizations; planning, implementing and evaluating the effectiveness of information dissemination strategy.

MCMC's vision is to manage information and public relations for the premier government; pioneering national agenda and disseminating latest and authentic news and information accurately to Malaysians and the international community at large.

MCMC also functions in planning, implementing and evaluating government policies and development programmes aimed at increasing public acceptance of Vision 2020 besides coordinating management and public delivery system.

Contact Details:
Lot 4G9, Persiaran Perdana, Precinct 4,
Central Administration of The Federal Government,
62100 Putrajaya, Malaysia.
Tel : 03-8000 8000
Email: webmaster@kkmm.gov.my
Website : www.kkmm.gov.my

Radio Television Malaysia

Radio Television Malaysia (RTM), the pioneer national broadcasting station, has undergone developmental changes over the years both in terms of technology and programming since its establishment in 1946.

Turning 69 by April 1st 2015, RTM will continue to play a crucial leading role in serving the Malaysian public through its diverse genres that broadcast via multi-platforms including RTM Mobile and online webcasting to garner a wider audience shares.

As the national broadcaster, RTM needs to fulfil its social obligations to realise national agenda and reaches 98% of Malaysia's population through quality programme contents that propagate good values and nation building.

Contact Details:
Director General Office
6th Floor, Wisma TV, Angkasapuri
50614 Kuala Lumpur
Phone: 03-2288 7303
Fax: 03-2284 7591
E-mail: feedback@rtm.gov.my



National Film Development Corporation Malaysia

National Film Development Corporation Malaysia (FINAS) is Malaysia's leading film agency and authority entrusted with the responsibility of developing the film industry. Established in 1981, it is a statutory agency under the Ministry of Communication and Multimedia Malaysia (MCMC). FINAS is responsible to promote, preserve and facilitate the development of the film industry in Malaysia and the agency that facilitates all foreign film production work in Malaysia.

Contact Details:
Kompleks Studio Merdeka,
Lot 1662, Batu 8, Jalan Hulu Kelang,
68000 Ampang,
Selangor Darul Ehsan

Telephone : +603- 4104 1300



Malaysian Communications and Multimedia Commission

MCMC is a statutory body established under the Malaysian Communications and Multimedia Commission Act 1998 (MCMCA) which implements and promotes the Government's national policy objectives for the communications and multimedia sector. MCMC regulates and promotes the development of the communications and multimedia industry which includes telecommunications, broadcasting, and online activities, postal services and digital certification. The Communications and Multimedia Act provides that MCMC undertakes a policy implementation role, while policy decision-making is vested with the Minister. The Minister may also give policy directions to the Commission.

Contact Details :
 Head Office Address
 Malaysian Communications and Multimedia Commission (MCMC)
 Off Persiaran Multimedia
 63000 Cyberjaya
 Selangor Darul Ehsan
 Malaysia
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 Fax: +60 3 8688 1000
 Email: ccd@cmc.gov.my
 Website: www.mcmc.gov.my



Multimedia Development Corporation

Multimedia Development Corporation (MDeC) is an agency that advises the Malaysian Government on legislation, policies and standards for ICT and multimedia operations while concurrently driving both the national ICT initiative, MSC Malaysia, and the national digital economy initiative, Digital Malaysia.

Visit www.mdec.my, www.mscomalaysia.my and www.digitalmalaysia.my for more information.

Contact Details:
 Multimedia Development Corporation Sdn Bhd
 2360 Persiaran APEC, 63000 Cyberjaya,
 Selangor Darul Ehsan, Malaysia
 Toll Free: 1-800-88-8338 (within Malaysia)
 T: +603-8315 3000 (Outside Malaysia)
 F: +603-8315 3115



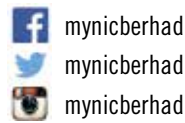
MYNIC

MYNIC is the sole administrator for web addresses that end with my in Malaysia. As an agency under Ministry Of Communications and Multimedia Malaysia, we promote the coolest website address in the world.

Domain names are not limited for Websites. You can also give a unique .my name to your personal or business social media pages.

MYNIC are constantly evolving and continuously improving towards a better domain registry services for our customers. Go online go.my.

For more info please visit www.mynic.my.



MYNIC Berhad

Level 3, Block C
 Mines Waterfront Business Park
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 Mines Resort City
 43300 Seri Kembangan
 Selangor Darul Ehsan
 Malaysia
 Tel: 03-89435510
 Faks: 03-89435520



Booth # 3: Asia Pacific Broadcasting

News You Can Use

Editec International is the publisher of Asia-Pacific Broadcasting (APB), a monthly publication that has been the voice of the broadcast and multimedia industry for more than 25 years. APB brings to decision-makers and professionals in the field, news of groundbreaking events, the hottest developments and the latest in technology trends, as well as interviews with key industry players.

In 2002, APB established DigiWorkz, the Asia-Pacific Broadcast Training Centre based in Singapore's Ngee Ann Polytechnic, to provide broadcasters from around the region with short, practical broadcast engineering and production courses. DigiWorkz also develops customised training for broadcasters in the region. It has conducted in-house courses for broadcasters in Hong Kong, Malaysia and the Philippines.

Contact person: Lynn
lynn@editecintl.com



Booth # 4 & 9: Rohde & Schwarz

For more than 80 years, Rohde & Schwarz had stood for the highest quality, precision and innovation in the fields of Test and Measurement & Broadcasting. In post-production, digital film and broadcast studio market, Rohde & Schwarz DVS GmbH is very successful with the highly developed and specially manufactured hardware and software that are applied at the production of popular TV series and Hollywood blockbusters, and enable 4K films for Digital Cinema.

The combined expertise of Rohde & Schwarz and Rohde & Schwarz DVS technology paves the way for many exciting new ideas in file-based broadcasting. The DI workstation CLIPSTER® was the first system in the world to make real-time 4K processing possible. Our reliable, cutting-edge storage technology is tailored to deliver optimum performance for handling any storage capacity. With its new Media Production Hub VENICE, it enables broadcasters to migrate from an existing SDI-infrastructure to an efficient file-based workflow easily. The ingest and production server boasts all the qualities of a classic video server and it also offers users a large number of intelligent options to empower both file-based and baseband workflows.

ROHDE & SCHWARZ Malaysia Sdn Bhd
No. 2, Jalan Pengaturcara U1/51,
Temasya Industrial Park,
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Tel: +603 5569 0011
Fax: +603 5569 0088
Email: info.malaysia@rohde-schwarz.com



Booth # 5: WorldDMB

WorldDMB is the global industry forum for digital radio promoting DAB/DAB+ digital radio - the digital radio standard of choice in Europe and Asia Pacific. Its global membership includes public and commercial broadcasters, network providers, receiver manufacturers, chip manufacturers, and car manufacturers. Members collaborate to deliver advice and tailored solutions on all aspects of the switch from analogue to digital radio including regulation, licensing, technology trials, network build out, marketing and production of new digital radio content. Broadcast radio professionals have access to this body of expertise which is delivered through leading-edge industry events, car manufacturers' workshops, and tailored seminars, as well as the WorldDMB website via the members-only information portal that includes an extensive online ETI library. WorldDMB actively facilitates technical trials and tailored study tours for those countries considering a switch to digital broadcasting.

www.worlddab.org



Booth # 6: Appear TV

Appear TV, with headquarters in Oslo, Norway, is dedicated to designing world class equipment for delivery of professional video services via any infrastructure. The company's mission is to deliver unique products that open up new opportunities for video transportation ensuring picture perfect quality to any screen anytime in the delivery chain.

Appear TV works closely with customers and suppliers to ensure that it is at the forefront of technology. Millions of households receive TV signals transmitted by Appear TV solutions at any one time.

The main part of the company's product range is centered around the XC Series platforms. It is designed following a modular philosophy, which provides flexibility and high density combined with unmatched reliability. Appear TV solutions are deployed globally at leading class cable, satellite, terrestrial and IP network operators in more than 100 countries.

Visiting Address
Appear TV AS
Lilleakerveien 2b
0283 Oslo, Norway

Contact
Tel: +47 24 11 90 20
Fax: +47 24 11 90 21
Email: info@appeartv.com



Booth # 7: LS telcom

LS telcom is the leading supplier of frequency planning, coordination and optimisation solutions for digital and analogue broadcast networks.

Its portfolio includes network planning software, consulting, engineering and measurement services. Training on technologies, standards, and regulations as well as transmitter container installations complete its area of expertise. LS telcom now also provides an unprecedented service; it carries out very cost-effective antenna measurements via remote controlled miniature helicopter.

Its cutting-edge broadcast planning software CHIRplus_BC for TV, DVB-T (& T2 & T2-lite), ISDB-T, ATSC, DTMB, CMMB, FM, LF/MF DAB(+), DRM(+) was the first of its kind on the market for these technologies.

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Sales Manager Broadcast
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Fax: +49 7227 9535 605
e-mail: Info@LStelcom.com
web: www.LStelcom.com



Booth # 8: About Measat

MEASAT is a premium supplier of satellite communication services to leading international broadcasters, Direct-To-Home (DTH) platforms and telecom operators. With capacity across six (6) communication satellites, the company provides satellite services to over 150 countries representing 80% of the world's population across Asia, Middle East, Africa, Europe and Australia.

The MEASAT fleet includes the state-of-the-art MEASAT-3, MEASAT-3a and MEASAT-3b satellites at 91.5°E supporting Asia's premium DTH and video distribution neighborhood; MEASAT-2 at 148.0°E; and, MEASAT-5 at 119.5°E. The MEASAT fleet will be further strengthened with the addition of MEASAT-3c in H2 2015.

For more information, please visit www.measat.com.



Booth # 10: ATDI

ATDI is a global leader in software solutions for radio communications network design and management. The company's expertise embraces all technologies in the frequency range 9kHz to 400GHz including all the analogue to digital technologies - DVB-T/T2, T-DMB, T-DMB, ISDB-T and DAB+.

Since 1997, ATDI has supported White-Spaces in ICS telecom. Now, the ICS suite offers a complete workflow and publish the data online to manage interference free TVWS management.

Whether the issue is spectrum regulation, modelling, planning or measurement of networks, radio professionals find their solutions at ATDI.

More information: www.atdi.com
 Contact: +61 (0)2 9213 2205
 email: jhwang@atdi.com



Booth # 11: About Conax

A part of the Kudelski Group (SIX:KUD:S), Conax is a leading global specialist around the total service protection for digital TV services over broadcast, broadband and connected devices. Conax provides telcos, cable, satellite, IP, mobile and terrestrial and broadband operations with the innovative, flagship Conax Contego™ family of flexible and cost-efficient solutions to deliver premium content securely and positioning to capture new market segments.

Headquartered in Norway, ISO 9001 & 27001 certified Conax technology enables secure content revenues for 390 operators in 85 countries globally. For more information, please visit www.conax.com and follow us on Twitter and LinkedIn.

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 Suite 3354, Interchange 21,
 399 Sukhumvit Rd, North Klongtoey,
 Wattana, Bangkok 10110
 Thailand
 T: +66 26603726
 Email: apac@conax.com

Conax Singapore
 8 Shenton Way
 #34-02 AXA Tower
 Singapore 068811
 T: +65 6827 9761/2

KATHREIN
 Antennen · Electronic

Booth # 12: Kathrein-WerkeKG

KATHREIN-Werke KG is an international enterprise active in antenna and communications technology. For more than 95 years the group of companies has been developing, producing and marketing a wide range of antenna systems and signal processing products. Always being one step ahead in technology has ensured that Kathrein is among the leading companies in the world market. The Kathrein Group is active in the following product ranges:

- Radio and TV broadcast antennas, filters and combiners
- FM, TV, DAB, DAB+, DMB, DVB-T, DVB-T2, DTV, and DVB-H antenna systems
- CATV systems and signal processing equipment?
- Broadband communication systems, HFC nets and headends?
- IPTV Solutions?
- Signal meters and test equipment?
- Mobile communication antennas and reception systems?
- Combiners and amplifiers for mobile communication base stations
- Car antennas and electronics
- RFID systems

Offering over 4,500 different products covering many different fields of telecommunication technology, Kathrein is one of the largest and oldest antenna manufacturers world?wide. One of our basic principles is to constantly look for perfect solutions to all our customers' requirements, assisted through our traditional Quality Assurance System which is certified according to DIN EN ISO 9001/14001.

KATHREIN-Werke KG
 Product Division Broadcast Antenna Systems
 P.O. Box 100 444
 83004 Rosenheim

Phone: +49 8031 184-958
 Fax: +49 8031 184-495
 E-Mail: broadcast@kathrein.de

Ikegami

Booth # 13: Ikegami Electronics Asia Pacific Pte. Ltd.

Trace the milestones of broadcast equipment technology and you'll usually find the name Ikegami. For the past 60 years, the company's achievements in broadcast television technology was its introduction of the portable video camera technology and in 1972 introduced the HL-33, the first compact hand-held color video camera for ENG.

Today, Ikegami is one of the world's leading manufacturers of high quality professional broadcast equipment offering a broad range of TV cameras for ENG, EFP, Studio, OB Van, Microwave Link Transmission, HDTV, CCTV, and Medical Imaging. Ikegami products have received various Emmy Awards and IABM for Engineering Excellence.

Ikegami APAC is officially opened its business in Singapore and we shall listen to our customers' wish list and to continue manufacturing products meeting their needs.

Ikegami Electronics Asia Pacific Pte. Ltd.

1 Tampines Central 5, #03-03
CPF Tampines Building, Singapore 529508
Tel: +65 6260 8820 Fax: +65 6260 8896
Email: info@ikegami.com.sg <http://sg.ikegami.co.jp/>



Booth # 14: Elti

ELTI draws on its 60 years' experience in providing broadcasting products and network solutions with complete RF digital DVB-T/H, DVB-T2 and analogue FM and TV products:

- Transmitters and repeaters (air or liquid cooled),
- Redundancy systems (N+1, dual-drive),
- Gap-fillers,
- Filters and combiners,
- Patch panels,
- Antenna systems
- Turnkey broadcast solutions.

Our equipment is currently in operation in more than 58 countries all over the world and we were one of the first suppliers for digital broadcasting equipment. Our primary advantages are high quality and high level of innovation. To provide this, one quarter of our employees are dedicated to research and development. We specially designed also Doherty type amplifiers in order to lift efficiency of our devices to an excellent level.

Knowledge we have, technological innovations and commitment to our customers brings us to further development of our products in order to satisfy needs of our customers.

transmitting together with Elti

ELTI d.o.o.
Panonska 23
SI-9250 Gornja Radgona
Slovenia, Europe

Phone: +386 2 564 32 00
Fax: +386 2 564 32 22
e-mail: info@elti.com
web: <http://www.elti.com>

nevision

Booth # 15: Nevision

A pioneer in media transport, Nevision provides network and broadcast infrastructure to broadcasters, telecommunication service providers, government agencies and other industries. It enables the transport and management of professional-quality video, audio and data – in real time, reliably and securely – from the camera to the home.

From content production to distribution, Nevision solutions are used to power major sporting and live events across the globe. Some of the world's largest media networks are built on Nevision technologies, including AT&T, Arqiva, BBC, BT, CCTV, EBU, TDF, Telefonica, Telenor and NASA.

3 Science Park Dr., #02-05
The Franklin, Singapore 118223
asiasales@nevision.com
+65 6872 9361



Booth # 16 & 17: Orban

Quality engineered in the USA and manufactured to the highest standards in Germany.

Orban with its world renowned OPTIMOD is a leading manufacturer of Television Loudness Controllers and AM, FM, Streaming Audio Processors. Our engineering team is headed by the companies founder Bob Orban. Since 2009 the manufacturing for our worldwide sales, and technical support, is under the supervision of Orban Europe GmbH in Germany.

Orban introduced the first FM Audio Processor in 1975. In 1981 we introduced the very first TV Loudness Controller the OPTIMOD TV 8180A of which we sold thousands to Broadcasters around the globe.

From the BBC to CNN many Broadcasters rely on the OPTIMOD to ensure that their audio quality is perfect, their levels under control with no artifacts.

At Orban we are proud to have been successfully engineering and manufacturing Loudness Controllers and FM Processors for more than 40 years in a market which is constantly evolving.

Please insert our WWW.ORBAN.COM
contact: plee@orban.com



Booth # 18, 19 & 20: NHK

NHK (Japan Broadcasting Corporation), Japan's only public broadcaster, introduced a radio service in 1925 and a television service in 1953. NHK broadcasts on two digital terrestrial television channels, two digital satellite television channels, and three radio channels.

<http://www.nhk.or.jp/corporateinfo/>

STRL (NHK Science & Technology Research Laboratories) is the sole research institute in Japan specializing in broadcasting technology. As a division of NHK, STRL has the role of leading Japan in broadcasting technology and enriching broadcasting culture. To fulfill its role, STRL conducts a wide range of research and development activities and proactively engages in international and domestic standardization efforts for the technology it develops.

<http://www.nhk.or.jp/strl/english/index.html>



Booth # 21: About TVU Networks

TVU Networks, a technology and market leader in IP-based live video solutions, helps transform broadcasters' SDI-based video acquisition, transmission, distribution and management operations to an IP-based infrastructure. TVU serves customers in more than 80 countries from industries that include news broadcast, web streaming, law enforcement, sports, corporate and government. In broadcast markets around the world including the USA, China and other major economic powers, TVU is the dominant market leader with more than half of all news broadcast stations using its IP video solutions, including TVUPack mobile cellular uplink solutions and TVU Grid IP video switching, routing and distribution solutions.

Contact information:

TVU Networks
857 Maude Avenue, Mountain View, CA 94043
Tel: +1-650-969-6732 Fax: +1-650-969-67-47
Email: info@tvunetworks.com



Booth # 22: Asia-Pacific Broadcasting Union

About the ABU

The Asia-Pacific Broadcasting Union (ABU) is a non-profit, non-governmental, professional association of broadcasting organisations, formed in 1964 to facilitate the development of broadcasting in the Asia-Pacific region. It provides a forum for promoting the collective interests of television and radio broadcasters, and engages in activities to encourage regional and international cooperation between broadcasters. It currently has over 270 members in 67 countries, with its broadcaster members reaching a potential audience of about 3 billion people. The ABU is the third largest of the world's eight broadcasting unions, but covers the largest geographic area of the world. For more information, please visit www.abu.org.my

AMPEGON

Booth # 25: AMPEGON

Ampegon is serving the global Radio Transmission and Antenna Systems markets as well as Scientific Applications and Green Technologies with an extensive product range in these strategic fields. As the leading designer, manufacturer and integrator of AM/DRM Radio Transmission Systems worldwide, Ampegon offers the complete system including transmitters, antennas and a wide range of auxiliary equipment. Our trademarks are innovation, advanced technology and premium quality systems.

Ampegon AG, Spinnereistrasse 5
5300 Turgi, Switzerland

www.ampegon.com
Tel: 0041 58 710 44 00
info@ampegon.com

PROGIRA®

Booth # 26: Progira

PROGIRA® is an independent solution and software provider. By identifying actual client needs we can provide truly great solutions—and real value—to the organizations we work with.

Our areas of expertise are Network Coverage, Infrastructure Investment Optimization, Digital Dividend Possibilities, Frequency Planning and Digital Cartography.

We have clients in more than 50 countries.

Our software PROGIRA® plan is the integral tool for planning cost-effective spectrum-efficient broadcast network solutions. PROGIRA® plan provides a complete coverage planning environment that lets you to optimize the use of frequencies, and analyze, compare and visualize measurement data.



Booth # 27: ENENSYS Technologies

ENENSYS Technologies has many years of experience in the design and manufacturing of Digital TV transmission systems. ENENSYS is the world leader in DVB-T2 technology and the product range covers Broadcast Network Equipment for Digital Terrestrial TV, Mobile TV and TSolP Distribution, and also Test & Monitoring solutions. Customers range from Broadcast & Network Operators, Chipset Vendors to Receivers Manufacturers.

ENENSYS is headquartered in Rennes, France, in the heart of the European Digital Broadcast Cluster.

w: www.enensys.com
e: contact@enensys.com
p: +33 1 70 72 51 70



Booth # 28: LYNX-Technik AG

LYNX Technik AG is a technology provider of modular interface solutions for broadcast and professional use. LYNX Technik is an independent privately owned company with its headquarters, research & manufacturing facilities based in Weiterstadt, Germany. Sales and Support is managed from its headquarters in Germany, USA (California), and Asia (Singapore).

Products: audio / video / fiber conversion, audio / video distribution, fiber splitters, CWDM mux/demux, audio embedding / de-embedding, audio delay, image processing, frame synchronizers, test generators, 4K transmission solutions, rack frames and accessories.

Brands: Series 5000 rack / card based series, APPolo control system, yellobrik standalone plug-and play modules and yelloGUI, Testor and Testor I lite 3G digital test signal generators.

LYNXTechnik Pte Ltdl Broadcast Television Equipment
19 Burn Road #01-01 Advance Building
Singapore 369974
Mobile: +65 9712 7252
Tel: +65 6488 1622
Fax: +65 6281 3371



Booth # 31: Radio Frequency Systems

RFS is a global designer and manufacturer of cable and antenna systems plus active and passive RF conditioning modules, providing total-package solutions for wireless infrastructure. RFS serves OEMs, distributors, system integrators, operators and installers in the broadcast, wireless communications, land-mobile and microwave market sectors.

We provide RF Systems solutions for television & radio, HF & defence, cell-based mobile communications, in-building, in-tunnels, radio-link networks, and LMR/PMR.

Contact details:
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AUSTRALIA
+61 3 9751 8551 or +61 413 200 680
ashley.bicknell@rfsworld.com
www.rfsworld.com



Booth # 32: WASP3D

WASP3D offers cutting-edge solutions in the area of content display and presentation for television broadcasters globally. WASP3D's innovative solutions include workflow based On-air graphics solution; Interactive presentation, WASPi Mimosa; Virtual Set With over 500 installations and presence in 40+ countries, WASP3D has helped several broadcasters to package and present their content to improve the viewer experience. Some of our customers include: RTM, ASTro Awani, CNBCe, MBC, MTN, Televisa, Ten Sports, TV9, YTN.

WASP3D employs more than 100 highly qualified professionals and is headquartered in New Delhi (Noida), India and has offices in USA, UAE, South Africa, Singapore, Bangkok, Mexico and Brazil.



Booth # 33: Canara Lighting

Canara Lighting is biggest manufacturer of Studio Lighting System in South Asia. They provide total solution for Studio Lighting System Covering Consultancy, design, manufacturing, installation, commissioning, training and after sale service. Product range includes fixed grid and motorised hoists, lighting fixtures, cable management system, dimmers and lighting console.

LED lighting fixtures available are 200W & 400W Fresnel, 90W & 180W panels, 150W cyclorama wash light, 125W remote phosphor panel, 36x3 & 54x3 LED Par. Company also provides lighting fixtures in halogen, CFL & HMI technology for use in studios.

Customer support centre located at Canara Lighting Malaysia for this region.

Contact Details:-
Name : Mr.Ajeet Khare
Mail : ajeet@canaralighting.com
Cell : + 91 98450 61859

Name : Mr.Dave
Mail : dave@canaralighting.com
Cell : +6 014 3185025

Name : Lee
Mail : lee@canaralighting.com
Cell : +6 016 3378086



Booth # 34: Playbox Technology

PlayBox Technology demonstrates its latest advances in broadcast channel branding and playout at **ABU DIGITAL BROADCASTING SYMPOSIUM 2015** in Kuala Lumpur. Held at Istana Hotel, March 3-6, the show and its parallel conference attract delegates from all parts of AsiaPacific.

PlayBox Technology products are in successful operation by national, regional and cable television channels around the region. During ABU, we will demonstrate a complete system including production tools, ProductionAirBox and the new CaptureBox PRO, latest versions of our established AirBox and ScheduleBox and recently introduced SocialMediaBox.

For more details please visit our booth#34 or contact us via e-mail at sales.asia@playbox.tv



Booth # 35: Thomson Broadcast

With more than 50,000 active worldwide THOMSON transmission systems, THOMSON Broadcast continues to forge technologies for the future. Acquired by ARELIS Group, a key provider of microwave electronics and energy solutions for the defense industry, THOMSON Broadcast reinforces its positions and proposes field-proven complete radio and television transmission systems.

THOMSON Broadcast is showcasing its complete solution of energy efficient transmitters for the deployment of cost-effective television transmission networks: from Dreamline low-power range, Nextivity medium-power range to Futhura high-power range. With the largest worldwide medium-wave radio transmitters installed base, THOMSON Broadcast is also showcasing its high-power medium-wave S7HP DRM ready transmitter system.

Contact details: Jean-Pierre Rutteau Sales Manager
jean-pierre.rutteau@thomson-broadcast.com
<http://www.thomson-broadcast.com>



Booth # 36: Spinner

SPINNER is a global leader in state-of-the-art RF-Systems and components for Broadcasting, with more than 65 years of experience. Our portfolio includes all passive components required between transmitter and antenna. SPINNER leverages its know-how to deliver tailored and innovative RF system designs that meet the requirements of the most demanding projects.

Our filters, combiners, patch panels, dummy loads and switches have become the standard for many transmitter manufacturers and operators in Europe, Asia, North and South America and the Far East.

SPINNER is also well-known for the delivery of solutions for mobile communication, radar & satellites and industry & sciences.



Booth # 37 & 38: Ideal Systems

Ideal Systems, Asia's largest broadcast systems integrator, with offices in Malaysia, Singapore, Thailand, Indonesia, Japan, China, India, Taiwan and headquarters in Hong Kong.

Ideal Systems provide engineering, project management, design and consultancy to media companies for a wide range of broadcast systems and solutions and studios.

With over 25 years in business Ideal has built an unrivalled expertise in the products from the main broadcast manufacturers including Evertz, Grass Valley and Snell and has layered on an invaluable integration skillset with the IT manufacturers, such as HP, Isilon, Dell, Cisco and Quantum. This combination of hardware, software, IP and IR plus our award winning design experience is the core of Ideal's skills, when added to quality of delivery and value for money, make's Ideal Systems the ideal media technology partner.



Booth # 39: MSA Focus International Limited

MSA Focus International Limited a world-leading developer of broadcast management systems, with solutions successfully installed at client sites in at least 30 countries, across four continents, since 1988. Worldwide market presence has led to the establishment of a global support network with offices in Europe, America and Asia. As part of MSA Inc, MSA Focus is unique among BMS suppliers. MSA, which celebrates its 50th anniversary this year, services several market sectors, specializing in the development of common principles of best practice in data management and analysis.

For 50 years it has remained true to its research-driven roots, while consistently nurturing a spirit of innovation. This has provided MSA Focus the ability to concentrate on developing leading-edge applications for the broadcasting sector. Experienced, international teams of broadcast analysts, integration specialists and developers leverage cutting-edge technologies and modern development tools for the development, implementation and support of our solutions. Integration to systems from complementary suppliers remains an important factor, but the main strategy for MSA Focus is delivering business process solutions to improve the productivity and profitability of our clients. This is achieved by specialization in a single class of product while drawing on expertise within MSA.

MSA Focus International Ltd
 B-1008, Block B, Kelana Square
 No. 17, Jln SS7/26
 47301 Petaling Jaya, Selangor
 Malaysia

Tel: 603 7806 1358
 Email: marketing@msafocus.com
 Website: www.msafocus.com



Booth # 40 & 43: Salzbrenner Stagetec Media Group

This year marked the eleventh year Stagetec Asia in the audio professional industry market. We have been providing reputable audio equipment solutions to all over Asian region in bringing broad range of products that complement each other. We are the distributor for Stagetec, Delec, ADAM Audio, DHD, Junger Audio, Merging Technologies, Prodys, RTW, Sonifex and Zenon Media. We also provide continuous support to our clients by serving professional training, seminars and consultation through The Salzbrenner Media Academy. We offer three types of training services to cater the respective demand through open professional training, customized training and consultation services when upon requested.

Contact details:- Mr David Chan Managing Director
 Email: d.chan@stagetec.com

SALZBRENNER STAGETEC MEDIAGROUP SDN BHD
 Level G-3A, SME Technopreneur Centre 3 Cyberjaya,
 Block 3740, Persiaran APEC,
 Cyber 8, 63500 Cyberjaya,
 Selangor,
 MALAYSIA.
 Phone: +603-8318 2820



Booth # 41: MediaGeniX

Put an end to poor legacy integration. MediaGeniX brings the best channel management software to Asia with the answers to your specific needs: WHATS'On. Optimised for the Asian market, our modular solution is not only designed to streamline your current processes, but also to grow along with your most ambitious plan. You can easily launch new VOD services for any platform, outlet or device, and schedule on linear channels and catch-up services, maximising your rights, monitoring progress throughout the workflow, securing clear, organisation-wide communication about schedule changes and rights, and always keeping a clear view on costs and revenues.



Booth # 42: ETA Network System Sdn Bhd

ETA Network Systems Sdn Bhd are specialist solutions provider in the Broadcast, Security & Surveillance and IT space.

Our partners include LiveU, SAMCON, Mobotics and Satamatics.

LiveU, the pioneer and leader in IP-based live video services and broadcast solutions for acquisition, management and distribution, will present its complete range of broadcast video devices and workflow solutions, including:



LU500 - The ultimate combination of high-performance and portability for cellular uplink and four-time award winner in 2014.

LU200 - The ultra-small newsgathering device that offers a highly attractive price, performance and form-factor for live video transmission.

LiveU Central+ – the enhanced cloud-based management and video distribution system. This powerful tool enables fleets of units to be centrally controlled using geo-location capabilities alongside a host of other management options.



Booth # 44: Spectra Logic

Spectra Logic develops deep storage solutions that solve the problem of long term storage for business and technology professionals dealing with exponential data growth.

Dedicated solely to storage innovation for more than 35 years, Spectra Logic's uncompromising product and customer focus is proven by the largest information users in multiple vertical markets globally.

Spectra enables affordable, multi-decade data storage and access by creating new methods of managing information in all forms of deep storage—including archive, backup, cold storage, cloud and private cloud.

Visit www.SpectraLogic.com.

REDtone

Booth # 45: REDtone

REDtone Data Centre is a solution & service provider of telecommunications services, data centre, disaster recovery and business resumptions services. We deliver reliable, resilient and cost effective solutions to support mission critical business operations. Our suite of services consists of FIVE complementing pillars that work synergistically to support and assist your business needs, namely:

- ICT-As-A-Service
- Managed Services For Media and Broadcast Industry
- Managed Network, Voice & data Services
- Business Continuity Services
- Professional Advisory Services

Contact Details:

Website: www.redtone.com

Email: marketing@redtone.com

Contact Number: 1800 87 7770

SONY

Booth # 46: SONY

About Professional Solutions Company (PSAP), Sony Corporation of Hong Kong Ltd.

Sony is a leading manufacturer of audio, video, game, communications, key device and information technology products for the consumer and professional markets. Sony's Broadcast & Content Creation Solutions Asia Pacific business is established under Professional Solutions Company (PSAP), a division company under Sony Corporation of Hong Kong Ltd. It markets Sony's leading broadcast systems, professional video and audio products in Asia other than Japan. It also provides customized business solutions, comprehensive technical support and after-sales service to help Sony's customers stay at the forefront of their business.

URL: pro.sony-asia.com

Contact us: <https://pro.sony-asia.com/pro/lang/en/hk/ezone/rfi/-sitehomepage/>

Email: pro.info@ap.sony.com

ORACLE® | FRONT PORCH DIGITAL

Booth # 47: Oracle Front Porch Digital

The combination of Oracle with Front Porch Digital creates the most comprehensive enterprise-grade cloud and on-premise content storage management solution to help organizations efficiently manage the growing complexities associated with the migration, integration, storage, and delivery of rich media content.

Company contact: Rino Petricola, +33 (0) 4 50 88 37 67

tekmark

Booth # 48 & 49: Tekmark Broadcast

TEKMARK is an established leading technology company founded since 1994 with an Authorized Capital of USD 3M and Paid Up Capital of USD 1.7M. We offer value added services in distribution of electronics test, measurement and monitoring solutions to various industries namely Telco, Broadcast, Education, Government, and Electronic Industries regional wide. As a leading technology company armed with 20 years of experience, we are pride ourselves having a team of T&M professionals in providing value innovation electronics test & measurement know-how and responsive after sales support

Contact Details:

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Contact Number: +6019 262 6899

Email address: gs.wong@tekmarkgroup.com

Name: Mr Joseph Kong

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Email address: joseph.kong@tekmarkgroup.com

Name: Ms Stephy Low

Contact Number: +603-9057 8999

Email address: stephy.low@tekmarkgroup.com

General sales/marketing enquiry:

tekmark.kl@tekmarkgroup.com

marketing@tekmarkgroup.com



Ericsson

Ericsson's TV solutions help content owners and operators to maximize content and consumer value by enabling them to utilise multi-platform infrastructure and eco-systems to deliver rich, blended multi-screen consumer experiences on all devices. Our offering spans the media value chain of content acquisition, creation, management, exchange and delivery to consumers. As a change agent for television, we are shaping the future of TV with our multi award-winning products.

Come visit Ericsson booth #48 & 49 and learn more about our leading compression solutions for content C&D applications, best-in-class video quality encoders and advanced architecture for Pay TV operators and broadcasters.

Amit Sood

Regional Sales Director, SEAsia,

BUSS SA Media Business Line Compression

Email : amit.sood@ericsson.com

Phone : +6567045621 / +6598342339



Booth # 50: Roland Pro A/V

Roland Pro A/V, a division of the Roland Corporation, is dedicated to providing solutions in support of audio and video professionals demanding excellence in both performance and functionality.

Through the development and support of video and audio products, we endeavor to improve workflow and maximize creative possibilities in a variety of markets.

Markets we serve: Broadcast • Education • Legal • Live Production • Sports • Theater • Theme Park • Videography • Visual Performance • Worship.

Roland Asia Pacific Sdn Bhd
 45-1, Block C2, Jalan PJU 1/39
 Dataran Prima
 47301 Petaling Jaya
 Selangor
 Malaysia
 Tel: 603 7805 3263
 Fax: 603 7805 3252



Booth # 51: Aspera

Aspera, an IBM company, is the creator of next-generation transport technologies that move the world's data at maximum speed regardless of file size, transfer distance and network conditions. Based on its patented, Emmy® award-winning FASP™ protocol, Aspera software fully utilizes existing infrastructures to deliver the fastest, most predictable file-transfer experience. Aspera's core technology delivers unprecedented control over bandwidth, complete security and uncompromising reliability. Organizations across a variety of industries on six continents rely on Aspera software for the business-critical transport of their digital assets. Please visit <http://www.asperasoft.com> and follow us on Twitter @asperasoft for more Information.



Booth # 54: ABU Radio-in-a-Box

The ABU's Radio-in-a-Box (RiB) is a versatile FM radio station complete with audio production and transmission capability primarily developed to be used in post disaster mitigation and community radio applications. The RiB unit comes complete with all necessary equipment professionally assembled in a rigid flight case (trolley case) that can be quickly moved around and deployed in a few minutes. The unit serves as a mobile radio studio with an audio mixer, CD/MP3 player, FM receiver and a fully functional audio workstation complete with recording, editing, scheduling and playback software. It is equipped to playback most common digital audio formats directly off a USB stick or common memory cards. The RiB comes with a FM transmitter, antenna and feeder cable.

Contact: Nguyen Thanh Nam
 Specialist Engineer, ABU Technology
 Email: rib@abu.org.my
 Tel: +6 03 2282 3108
 Fax: +6 03 2282 5292



Booth # 55: Content + Technology

Since 2003, Content+Technology magazine has served content production and delivery professionals throughout Southeast Asia, Australia, and New Zealand.

C+T is published in two editions - Asia and Australia/New Zealand. C+T Asia (Subscribers 3265) is printed and mailed out of Singapore, while C+T ANZ (Subscribers 3641) is produced and mailed from Sydney.

These are backed up by C+Tmail, our weekly eNewsletter, going out to over 9000 contacts across the region. Look for our group on LinkedIn.com

Content+Technology magazine
 PO Box 259, Darlinghurst, NSW 1300, Australia
 Tel: +61 2 4368 4569
 Email: papers@broadcastpapers.com
www.content-technology.com



Booth # 56: WorldCast Systems

WorldCast Systems is a highly respected provider of professional, reliable and innovative solutions to the Radio & TV industry worldwide.

Encompassing the leading brands APT, Eceso & Audemat, WorldCast Systems offers high-performing broadcast systems including audio codecs, FM transmitters and RF signal monitoring designed to meet the needs of both large international broadcast networks and small private stations alike. We can also work closely with our customers on turnkey projects, providing everything from advice and consultancy through rack integration to installation, commissioning and training.

WorldCast Systems' products are deployed throughout the networks of many major public and commercial broadcasters worldwide.
 Contact: Guillaume Boutin Boutin@worldcastsystems.com
 T: +33 5 57 928 928



Booth # 57 & 58: EMC Corporation

EMC Corporation is a global leader in enabling businesses and service providers to transform their operations and deliver IT as a service. Fundamental to this transformation is cloud computing. Through innovative products and services, EMC accelerates the journey to cloud computing, helping IT departments to store, manage, protect and analyze their most valuable asset - information - in a more agile, trusted and cost-efficient way. Additional information about EMC can be found at www.EMC.com.



Booth # 59: Aviindos

Aviindos sets its focus in providing solutions to the industry with its wide range of services, from Test & Measurement solutions to system design & integration. With over 10 years of combined experience and its business representation of technological partners from the European, North American and Japanese continent, Aviindos brings to the industry the latest technological advancement to suit the various industries' need, for Satellite, Wireless, Broadcast, IP/VOIP/TDM, Design, Defence and Manufacturing industry.

www.aviindos.com



Booth # 60: Village Island

Village Island, established in Japan in 2005 with a regional sales office based in Singapore is dedicated to deliver state-of-the-art solutions to every sector of the broadcast industry. Our team of experienced engineers strives to identify customer needs and respond through the use of top quality products from leading manufacturers such as DekTec and Sencore.

Our solutions include standalone units ready to be integrated into existing workflows, or full systems combined with our in-house multiplexing platform, VillageFlow. Utilizing this powerful technology, we are able to provide a unique, state-of-the-art HEVC decoder providing full frame 4k 60p content, which we can successfully transport over a single fiber link using the Barn Find platform, the BarnOne.



Booth # 61 & 62: Skyline Communications

Skyline Communications is the global leading supplier of multi-vendor network management solutions for the HFC broadband, satellite, IPTV and broadcast industry. Our flagship DataMiner network management platform, which received various prestigious

awards, enables end-to-end integration of the most complex technical ecosystems and has been deployed by leading operators around the world. **DataMiner** is today already integrated with over 3500 devices and systems from more than 400 key industry suppliers, and offers a plethora of functionality.



Booth # 63: Canon Singapore Pte Ltd

Canon Singapore Pte Ltd is the headquarters for South & Southeast Asia driving sales, marketing & service strategies. The company leads 13 countries including Thailand, Indonesia, India and etc.

A recognized leader in imaging technology, Canon's professional still & motion acquisition products are engineered to satisfy users from major broadcasters, directors, producers and DoPs in the television and motion film industry globally.

1 HarbourFront Avenue
#04-01 Keppel Bay Tower
Singapore 098632
T : 65 6799 8888 F : 65 6221 7577
Email : professional_imaging@canon.com.sg
Website : www.canon-asia.com



Booth # 64: rprobe

rprobe is a probing platform designed for spectrum sensing applications, having the ability to measure in real time, the DTT signal quality providing a low cost 24/7 monitoring of DVB-T/T2 live transmission network. It supports the latest digital TV broadcast standards: DVB-T, DVB-T2/Lite and DVB-C, and collects several quality parameters of the DVB-T signal: modulation error rate (MER), signal-to-noise ratio (SNR), among other DVB parameters, providing statistical reports, allowing representation, identification and characterisation.

Rnode ensures that the companies responsible for broadcasting DTT can fulfill the signal requirements.

Contact details: Mr. Mário Rui Santos | Sales Manager |
+351 917 753 949



Booth # 65 : Adstream

Adstream is the world's leading provider of collaborative advertising technology solutions, connecting brands, agencies, production companies and media owners by streamlining business process throughout the advertising cycle from briefing to delivery, enabling higher efficiency, transparency and profitability. Founded in 2001, Adstream has 42 international offices and its team serves more than 5,000 clients in 26 countries, worldwide. For more information, please visit www.adstream.com

Address: 9-1 Level 9, Tower 9, Avenue 5, The Horizon, Bangsar South, No. 8 Jalan Kerinchi, 59200 Kuala Lumpur, Malaysia
ph: +60 (0) 3 2240 2288
fax: +60 (0) 3 2240 2277
Email: sales.my@adstream.com
Website: www.adstream.com

Adstream is the world's leading provider of collaborative advertising technology solutions, connecting brands, agencies, production companies and media owners by streamlining business process throughout the advertising cycle from briefing to delivery, enabling higher efficiency, transparency and profitability. Founded in 2001, Adstream has 42 international offices and its team serves more than 5,000 clients in 26 countries, worldwide. For more information, please visit www.adstream.com

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ph: +60 (0) 3 2240 2288
fax: +60 (0) 3 2240 2277
Email: sales.my@adstream.com
Website: www.adstream.com



Booth # 66 & 67 : MediaGuru

MediaGuru is a leading global provider of services and solutions to broadcasters and media organizations offering end-to-end services encompassing digital archiving, digital media, turnkey technology solutions and consulting. With over a decade of experience in setting-up state-of-the-art broadcasting stations, new media ventures and revamping the existing infrastructure, MediaGuru has helped media organisations world-over to turn their enterprises into profitable businesses.

MediaGuru through its exclusive joint venture with Brussels based Memnon Archiving Services provides on-site & off-site digitisation services for audio, video, film, photographs and document archives to organisations looking to preserve their legacy content.

With offices in India, Singapore, UAE and South Africa, MediaGuru serves its clients spread across Asia, Africa & Middle East.

For more information, visit www.mediaguru.com



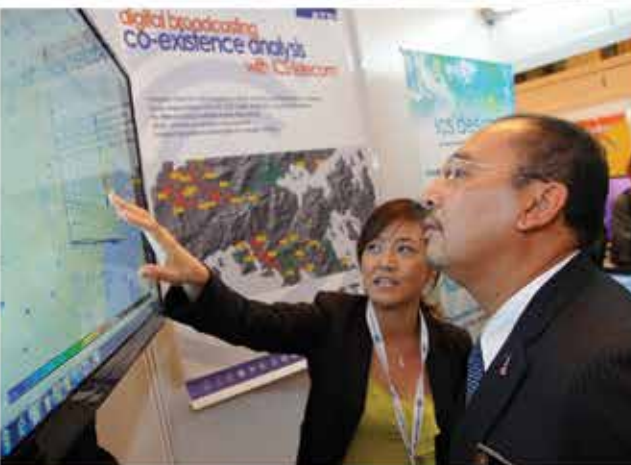
APIA, SAMOA • 24-26 AUGUST 2015

Photo Gallery 2014

- Participants >> 1288
- Symposium Delegates >>> 525
- Exhibition Visitors >>> 535
- Speakers >> 83
- Workshops >>> 12
- Countries represented >>> 52



Photo Gallery 2014



Industry Debate

Is Spectrum Essential for Broadcasting?

The industry debate on 6 March will focus on a number of challenges faced by broadcasters in the rapidly changing media landscape. Among the issues panellists will address:



- Digital radio is not primarily driven by regulation as is television. With the FM band congested, how can radio broadcasting secure frequencies to deliver over-the-air digital radio services?
- Over-the-air interface has been serving the broadcast industry over many decades to deliver radio and television content but broadcast services are now suffering from interference from cellular operations by telcos. No studies have yet proved that cellular technologies can replace broadcast networks to deliver either radio or television content in the near future.
- Broadcasters are developing spectrum efficient content delivery mechanisms using terrestrial networks for both fixed and mobile reception of media content. Current digital broadcast technologies can handle even UHD content using efficient video compression and strong channel coding techniques to deliver over-the-air true broadcast services.
- Over-the-top (OTT) services are gaining momentum with increasing broadband penetration. However, many people have no access to the Internet. Even with such access, planning and operating a profitable OTT service remains a challenge.
- UHDTV-2 is evolving and UHDTV-1 services are being offered by various operators. We need to secure spectrum to allow future broadcasting that will assure access to information without a gatekeeper.
- Broadcasters need to work together on a global scale to make governments and regulators aware of the importance of ensuring people have access to information.

The Industry Debate takes place from 11.00 to 12.30 in the main conference room.

ABU Engineering Awards 2014

ABU Developing Broadcasters' Excellence Award sponsored by SONY

Mr Lasantha Samaranyake, Director of Engineering at EAP Network Sri Lanka, won the ABU Developing Broadcasters' Excellence Award for his role in implementing a new frequency reallocation for EAP in a limited time frame and with minimum interference to signals.

SONY



EAP



The citation reads:

Lasantha Samaranyake of EAP Networks (Pvt) Ltd wins the ABU Developing Broadcasters' Excellence Award 2014 for his outstanding role in implementing a new frequency reallocation for EAP in a limited time frame.

Overcoming many challenges, he handled the frequency planning for all three of EAP's FM channels. The exercise was successfully completed on time with a minimum of interference to signals despite limited human and physical resources and funds.

Mr Samaranyake received the Developing Broadcasters' Excellence Award trophy from Dr Javad Mottaghi, ABU Secretary-General, at the ABU Prizes Night held on 27 October 2014 at the Sheraton, Macau.

ABU Engineering Industry Excellence Award

The ABU Engineering Industry Excellence Award, was presented to Mr Frederico Alexandre do Rosário, Director and Member of the Executive Committee of



TDM Macau, for his leadership of TDM's migration to digital and the implementation of a completely tapeless working environment.

The citation reads:

Frederico Alexandre do Rosário wins the ABU Engineering Industry Excellence Award 2014 for his outstanding leadership of TDM's migration from analogue to digital broadcasting.

He led the implementation of a completely tapeless working environment in the television station in 2009, from production to broadcasting. The new system changed totally the way TDM TV operated.

Mr do Rosário received the trophy from the ABU Acting President, Dr Ahmad Jailani Muhamed Yunus, Deputy Director-General (RTM), at the ABU Prizes Night held on 27 October 2014.

ABU Broadcast Engineering Excellence Award

The ABU Broadcast Engineering Excellence Award was bestowed on Mr Sunarya Ruslan, Chairman of the Supervisory Board of RRI Indonesia, in recognition of his outstanding contribution to the development of RRI and to broadcasting regulations in Indonesia.



Sunarya Ruslan of Radio Republik Indonesia wins the ABU Broadcast Engineering Excellence Award 2014 for his outstanding contribution to the development of RRI and broadcasting regulations in Indonesia.

He first proposed a multiplex broadcasting and frequency allotment for public broadcasting using 20 percent of the existing frequencies – a move incorporated into government broadcasting regulations. Among other innovative measures, he was responsible for introducing an early warning system at RRI.

Mr Sunarya received the trophy from Dr. Manuel Pires, Vice-Chairman of the Board of Directors and Chairman of the Executive Committee, at the ABU Prizes Night held on 27 October 2014.

ABU Green Broadcast Engineering Award sponsored by KOBA

CCTV China was the winner of the ABU Green Broadcast Engineering Award 2014 in recognition of the reduction of its carbon footprint and promoting the protection of the environment through the introduction of its file-based workflow.



The citation reads:

CCTV-China wins the ABU Green Broadcast Engineering Award 2014 for reducing its carbon footprint and promoting the protection of the environment through the introduction of its file-based workflow.

CCTV sets environmental protection as a basic philosophy, in addition to producing a range of programmes designed to raise public awareness on environmental issues

Mr Il-Soo Kyung, Director, KBS-Korea who represented KOBA, presented the award to Dr Mei Jianping, Director Radio and Television of the People's Republic of China who accepted the award on behalf of CCTV.

ABU Technical Review Prizes

The winner of the **Best Article Prize for 2014** is NHK-Japan for the article titled UHDTV System Colourimetry and Technical Development for its Implementation.

The authors are Mr Kenichiro Masaoka, Mr Takayuki Yamashita, Mr Takuji Soeno, Mr Yukihiko Nishida, Mr Yuichi Kusakabe, and Mr Masayuki Sugawara of the NHK Science & Research Laboratories.



Mr Kenichiro Masaoka



Mr Takayuki Yamashita



Mr Takuji Soeno



Mr Yukihiko Nishida



Mr Yuichi Kusakabe



Mr Masayuki Sugawara

At the TC Meeting on 24 October 2014, Mr Frederico Alexandre do Rosário, Director and Member of the Executive Committee, TDM and TC Honorary Vice Chairman, presented the certificate to Dr Narichika Hamaguchi who accepted on behalf of NHK-Japan.



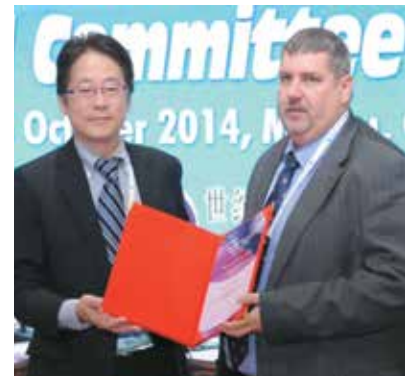
At the ABU Prizes Night on 27 October 2014, Mr do Rosario presented the certificate to Mr Masakazu Iwaki, the newly elected TC Chairman, who accepted on behalf of NHK-Japan.



The **First Commended Article Prize** was awarded to Television New Zealand for the article titled Technical Aspects of Analogue Switch Off in New Zealand Zealand authored by Mr Wayne Huggard.



Mr Masakazu Iwaki, TC Acting Chairman presented the certificate to Mr John West, Exec. VP Sports, TVNZ, who accepted on behalf of Mr Huggard at the Technical Committee Meeting Opening Session on 24 October.



The **Second Commended Article Prize** was awarded to the Islamic Republic of Iran Broadcasting for the article titled How the ICT Application Can Improve Management of Archiving Systems authored by Mr Alireza Bahadori.



Mr Masakazu Iwaki, TC Acting Chairman presented the certificate to Mr Hamid Nayeri, Director Technical Affairs and TC Vice Chairman who accepted the certificate

on behalf of Mr Bahadori during the ABU Technical Committee Opening Session on 24 October.

ABU Distinguished Service Award 2014



Dr Keiichi Kubota was presented with the ABU Technology's highest accolade, the ABU Distinguished Service Award.

Dr Kubota, President & CEO of NHK Integrated Technology Inc, was recognised at the opening day of the ABU Technical Committee meeting which took place during the ABU General Assembly and Associated Meetings in Macau, China.

The ABU Distinguished Service Award recognises the outstanding achievements and contribution by an individual to the broadcasting industry. During his 38-year career in broadcasting, Dr Kubota has made significant contributions in the area of HDTV standardisation. He was instrumental in advances in the areas of satellite and terrestrial transmission systems, as well as in signal processing for HDTV. Dr Kubota also played a leading role

in the rollout of NHK's digital satellite broadcasting service and the coverage of the 2012 London Olympics in Super Hi-Vision.

In his speech Dr Kubota said he had spent a major part of his career at NHK's laboratory developing the HDTV and Ultra-HDTV systems. During this period he had made many friends in Asia and around the world through various engineering projects and standardisation activities. Dr Kubota said he was happy to witness the huge changes in the broadcast industry during his 38-year career, and felt lucky that he could overcome all sorts of difficulties during the transition with his colleagues around the world. Dr Kubota promised to continue working as a bridge between the Japanese broadcast industry and the broadcast industry in Asia and the Pacific.



See you soon

2-3 July 2015 Da Nang City, Vietnam
Contact: wisit.atipayakoon@itu.int



Become an ABU Member . . .

be part of the development of broadcasting in the Asia-Pacific!



Since 1964, the Asia-Pacific Broadcasting Union (ABU) has been the pre-eminent forum for the promotion of the interests of broadcasters in the Asia-Pacific. The primary objective of the ABU is to facilitate the development of broadcasting in the Asia-Pacific region through the organisation of co-operative activities amongst its members.

By being a member of the Asia-Pacific Broadcasting Union, your organisation will benefit from access to the highest level executives of national terrestrial television and radio broadcasters, international broadcasters, and related industry service suppliers across the region. With over 270 member organisations from 67 countries and regions, the ABU's networks, contacts and publications can provide you with valuable visibility among target clients and partners.

Networking opportunities

Supporting our missions to developing countries is a good enough reason to become an ABU member, but many members want to have a more active association with the ABU. Many take advantage of their attendance at our annual meetings, to network with key decision makers from broadcasting organisations, governments and regulators from across the region. As the largest industry association for broadcasters in the Asia-Pacific, the ABU provides valuable opportunities for the fostering of professional relationships.

Tangible benefits

There are many other tangible benefits of being an ABU member. The ABU publishes reports and provides access to information that is unavailable from other sources, and ABU members can participate in activities such as programme exchange projects, engineering studies and the ABU Prizes contest. The ABU undertakes considerable international representation activities in relation to spectrum management for both terrestrial and satellite based transmission services. The ABU is actively involved in copyright education and enforcement. It is currently campaigning with other broadcasting unions for broadcasters to have their own, updated international treaty to protect their intellectual property rights.

Membership Categories

Full members

Free-to-air broadcasting organisations in independent countries in the ABU region may apply for Full membership, provided that (a) they provide broadcasting services of a national character or national importance in the countries of their location; and (b) they actually produce and/or commission under their own editorial control a substantial proportion of their programme output. Membership fees are determined by the applicant's annual gross operating expenditure.

Additional Full members

In order that each country has equal representation in determining ABU policy decisions, the number of Full members with full voting rights is limited to two per country. Other free-to-air broadcasting organisations in independent countries, and those in non-independent areas (such as Special Administrative Regions) in the ABU region, may apply for Additional Full membership, provided they fulfill the conditions (a) and (b) in the paragraph above. Additional Full members enjoy the same rights of membership as Full members, but with more limited voting rights. Membership fees are also determined by the applicant's annual operating expenditure but are less than those of Full members.

Associate members

Free-to-air broadcasters outside of the ABU region, provincial broadcasters within the ABU region, subscription broadcasters (cable and satellite) and broadcasting associations may apply for Associate membership. Associate members enjoy most of the same rights of membership as Full and Additional Full members, except that they do not have rights to vote nor be eligible for nomination to the Administrative Council. Membership fees are determined by the applicant's annual gross operating expenditure and the subscription fees are less than those of Full and Additional Full members.

Affiliate Membership

Organisations that have an association with broadcasting and media, but are not broadcasters themselves, may apply for Affiliate membership. ABU Affiliates currently include regulators, satellite operators, programme suppliers, equipment manufacturers, and other industry service providers. Affiliate membership fees are dependent on the size of the organisation.

Institutional membership

This category of membership may be offered to other international organisations in the broadcasting industry, usually on the basis of reciprocal membership being offered to the ABU. Institutional membership is granted only through the invitation of the ABU's Administrative Council.

For further information on ABU membership categories or to apply for membership, please contact:

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ABU DIGITAL BROADCASTING SYMPOSIUM 2016

**Announcing the next
ABU Digital Broadcasting Symposium
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ABU Technology Department's Assistance to Members for the Implementation of Digital Broadcasting Services in the Asia-Pacific Region

- **Major Forums**

Digital broadcasting symposiums with implementation themes

- **Seminars, Workshops, Webinars**

Digital studio design workshops and technology seminars

- **Safeguarding Broadcasting Spectrum**

Representing the region on spectrum issues to ensure availability for digital services

- **Techno-economic Studies**

Analysis of individual country readiness for digital broadcasting services and developing implementation roadmaps

- **Technical Monographs**

Publication and distribution of technical monographs and reports on digital technology

- **Digital Implementation Trials**

Assisting members conduct trials for digital TV and Radio