









RTM-WORLDDMB-ABU DAB+ TECHNOLOGY WORKSHOP AND TRANSMISSION DEMONSTRATION

28 Feb - 4 Mar 2014, Kuala Lumpur

This event, "RTM-WorldDMB-ABU DAB+ Technology Workshop and Transmission Demonstration", will showcase the DAB+ standard and its transmission technology demonstrating its features and efficiency improvements compared to analogue FM broadcast. The event comprises a 2-day technology workshop followed by a 1-day transmission trial and field measurement exercise in and around the city of Kuala Lumpur and half day session of the test result. The workshop will provide the participants with up to date information on implementation of DAB+ technology, its enhancements and its planning and digital radio implementation aspects. The project aims to equip the participants with expertise in the area of digital radio broadcasting helping them in carrying out similar implementations in their own countries.

PROGRAMME

Time	Topic	Speaker				
DAY-1: 2	DAY-1: 28 Feb (Friday)					
0830-0900Hrs Registration open (in front of Dewan Cendekiawan of IPPTAR Hall in RTM)						
Opening	Opening Session					
0900 - 1010Hrs	Welcome remarks	Dato' Abu Bakar, RTM				
	Introduction, opening remarks and objectives	Zulkifli Raham, RTM				
	Overview of Regulation and Planning in Malaysia	MCMC-Malaysia				
	Asia Pacific Overview	Dr Amal Punchihewa, ABU				
Session 1: DAB+ Digital Radio Overview and Services						
1010 - 1030Hrs	How Malaysian broadcasters will benefit from DAB+ digital radio	Kath Brown, CRA				
Coffee/Tea break						
1130 - 1230Hrs	Overview of DAB+ Digital Radio – capabilities and functionality	Dr Les Sabel, WorldDMB Technical Committee				
	Personal Receivers – types, features and trends	Kath Brown, CRA or Industry speaker TBC				
	Automotive Receivers – types, features and which vehicle manufacturers support DAB+	Kath Brown, CRA				

	Automotive Best Practice	Wilson Ng, CRA		
	Extended lunch break			
1500 - 1630Hrs	Examples of new services and platforms	Kath Brown, CRA		
	Smartphones and Hybrid Radio Apps – Opportunities for Malaysian broadcasters	Industry speaker, TBC		
	Why DAB+ makes radio environmentally friendly	Dr Les Sabel, WorldDMB TC /Industry speaker		
	Coffee/Tea break			
1645 – 1730Hrs	RTM Kuala Lumpur DAB+ Trial System description	Zulkifli Rahim, RTM		
	Field Testing Exercise What will be demonstrated and measured How and why Where	Wilson Ng, CRA		
	Closing remarks	Zulkifli Rahim, RTM		
	- End of Day 1 -			
DAY-2: 1	March (Saturday)			
Session 2	2: Infrastructure System Planning			
0900 - 1015Hrs	Additional remarks and objectives	Zulkifli Rahim, RTM		
	Engineering aspects of regulation	MCMC		
	Structure of DAB+ broadcasting , Part 1: Head end system – Services and Structure • Multiplexing and stream structure • PAD types and inclusion in ETI stream • Data services • Signalling • Delay systems	Dr Les Sabel, WorldDMB Technical Committee		
Coffee/Tea break				
1030 - 1230Hrs	Structure of DAB+ broadcasting , Part 2: Transmission	Dr Les Sabel, WorldDMB TC /Industry speaker TBC		
	PAD generation methods and hybrid operation overview	Wilson Ng, CRA		
	Playout Systems and PAD Server	Industry Speaker		

	RF planning Part 1: Coverage Planning tools Single Frequency Networks Multi Frequency Networks Network design Coverage modelling	Dr Les Sabel, WorldDMB TC /Industry speaker			
	Lunch break				
1315 - 1500Hrs	RF planning Part 1: Coverage - continued	Dr Les Sabel, WorldDMB TC /Industry speaker			
	RF Planning continued, Part 2: Interference	Dr Les Sabel, WorldDMB TC /Industry speaker TBC			
	Network Planning	Dr Les Sabel (WorldDMB TC)			
	Coffee/Tea break				
1515 - 1645Hrs	System construction phase	Dr Les Sabel, WorldDMB TC /Industry speaker TBC			
	Operations and Maintenance	Dr Les Sabel, WorldDMB TC			
	Field Testing Exercise What will be demonstrated and measured How and why Where	Wilson Ng, CRA			
	General Questions and closing remarks	Zulkifli Rahim, RTM			
- End of Day 2 -					
DAY-3: 2 March (Sunday)					
Session 3	Session 3: Field Measurement				

0900 - 1700Hrs	Field testing activities From RTM site to main transmitter or different OCRs 4 – 6 field trips of approximate 1.5 hrs each	Assumes one vehicle with 5 passengers plus the demonstrator in rear, driver in front			
	- End of Day 3 -				
DAY-4: 4	March (Tuesday)				
Session 2: DAB+ Results and Discussion					
0900 - 1030Hrs	Presentation of field testing results	Dr Les Sabel, WorldDMB TC			
	Questions and Answers	Panel session chaired by Dr Amal Punchihewa (ABU)			
	Coffee/Tea break				
1100 - 1230Hrs	Next steps to move forward Regulation Collaboration and commercialisation Rollout timing, geography and cost	Kath Brown (CRA)			
	Next Steps for Malaysia	Panel session chaired by Zulkifli Rahim (RTM)			
	WorldDMB Closing Remarks	WorldDMB			
	General Questions and closing remarks	Zulkifli Rahim (RTM) / Dato' Abu Bakar			
Lunch					
- End of Day 4 -					

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