

ASEAN Workshop on 5G Spectrum

Final Agenda

16 August 2019, Melia Hotel, Hanoi

08.30-09.00	Registration and coffee
08.30 03.00	OPENING KEYNOTES
09.00 – 09.10	Welcome Remarks
05.00 - 05.10	H.E. Mr. Nguyen Hong Hai, Vice Minister of MIC Viet Nam
09:10-09:15	Opening Remarks
03.10 03.13	Ms. Hjh Yusrina Binti Haji Mat Yussof- SSM Chair
09.15 - 09.30	Opening Keynote: Global perspective on 5G spectrum
	Mr. Peng Zhao, Senior Spectrum Director, GSMA
09:30 - 09:45	Keynote: Spectrum roadmap in Vietnam
	Mr. Le Van Tuan- Deputy Director General- ARFM Viet Nam
09.45 – 10.20	Keynote:5G for ASEAN
	Mr. Yi Shen Chan, Director, Plum Consulting
	Mr. Scott Minehane , Managing Director Windsor Place Consulting
10.20- 10.35	COFFEE BREAK
	SESSION I:5G mid-bands: opportunities & solution
	(Objective: speakers will share on 3.5 GHz band pland: spectrum block sizes, minimum
	bandwidth per operator; matter of compatibility and sharing between 5G NR vs. FSS
	earth stations and other radio systems in C-band and in adjacent bands, mitigation
	techniques, guardbands, adding filters to VSAT, improvement of 5G NR spectrum mask,
	coordination distances,)
10.35 – 10.50	Sharing study and compatibility
	Mr. Alex Orange, Senior Director, Government Affairs, Qualcomm
10.50 – 12:00	Round table, country case study using C-band
	Moderator : Mr. Le Van Tuan, Deputy Director General, ARFM
	- 5G in China and Japan using C-band and 4.8-4.99 GHz
	Mr. Wang Hu, Head of Spectrum, Huawei
	Mr. Hiroyuki Atarashi, Director Radio System Group, NTT Docomo
	- Thailand Case study
	(Dr. ThirapiroonThongkamwitoon- Office of NBTC Thailand)
	- ASEAN representatives, Huawei, NTTDocomo
12.00 – 13.30	Lunch
	SESSION II: MmW bands: Spectrum and Coverage challenges
	Objective: speakers will share on cell coverage of 5G NR in mW(outdoor, outdoor to
	indoor) in different weather conditions both in theory (simulations) and pratical field test
	measurements; effect of massive MIMO, in order to make clear if mW can be used for



	5G in heavy rain region like South East Asia. Frequency ranges mWshould be allocated to
	5G, bandwidth per operator should be addressed.
13.30 – 13.45	5G Spectrum and Coverage challenges Mr. Le Ba Tan, Deputy Director General, Viettel Network
13.45- 14.00	APG19-5 results and WRC-19 preparation Mr. Hiroyuki Atarashi, Director Radio System Group, NTT Docomo, APT coordinator for WRC-19 AI 1.13
14.00 – 15.00	Round table, Spectrum and Coverage challenges Moderator: Mr. Cristian Gomez, Director Spectrum Asia, GSMA - 5G Spectrum Status – APAC and Globally - Mr.Yoshio Honda, General Manager, Standardization and Regulation, Ericsson Japan - ASEAN representatives - Qualcomm, Ericsson, Viettel
15.00-15.15	Coffee Break. SESSION III:Spectrum licensing (Objective: speakers to share on how 5G spectrum should be licensed, auction or direct allocation; spectrum charges/fees in compare with other mobile bands; any special conditions,)
15.15 – 15.30	5G use cases Mr. Kai Sahala – Head of 5G Asia pacific Japan , Nokia
15.30 - 15.45	5G Spectrum licensing Best Practice: Mr. Peng Zhao, Senior Spectrum Director, GSMA
15.45 – 16.15	Round table discussion Moderator: Mr. Scott Minehane, Managing Director Windsor Place Consulting - ASEAN representatives - Axiata, Nokia, Huawei.
	SESSION IV: Round table discussions Objectives: to make clear what are possible solutions that ASEAN countries may take to make spectrum available for 5G NR and to perform licensing in earliest time.
16.15 – 17.20	Round table discussion Moderator: Mr. Yi Shen Chan, Director, Plum Consulting
	Round table: + ALL ASEAN representatives, Viettel, VNPT
17.20 – 17.30	Conclusion and vote of thanks
	Mr. Cristian Gomez, Director Spectrum Asia, GSMA Mr. Le Van Tuan, Deputy Director General, ARFM Vietnam