IEEE P802.11
Wireless LANs

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| March 2012 Regulatory Meeting Minutes |
| Date: 2012-3-12 |
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Abstract

This document contains minutes of IEEE 802.11 Regulatory Standing Committee meeting in Waikoloa.

**March 12, 2012 (Monday) AM2 13:30 – 15:30**

Notes – Monday, March 12th, 2012

1. Called to order by Chair Rich Kennedy at 13:33 local time.
2. Assign a recording secretary
	1. Peter Ecclesine, Cisco volunteered
3. Administrative items
	1. The chair reviewed the items on slide 4 of Document 11-12-0310-01-0reg-waikoloa-meeting-plan-and-agenda-march-2012
	2. Required notices
		1. Patent policy was restated.
4. Review and approve the agenda
	1. Agenda in 11-12/310r0 accepted unanimously
	2. Chair reads anti-trust and competition slide
	3. Chair reads Introduction  (slide 6)
5. Regulatory Summary – North America
	1. **US**
		1. Payroll Tax Bill passed in February contains the spectrum changes (11-12/312r0)
		2. CSMAC deliberating on controlling interference from unlicensed spectrum use
		3. FCC looking at receiver standards (Q is this in response to the GPS interference activity? Chair – I don’t think the activities are related)
		4. US Spectrum Bill Summary - **Unlicensed use of the 5 GHz band  (para 6406)**
			1. 8-month NTIA study to add 5350 - 5470 MHz to U-NII
			2. 18-month NTIA study for 5850 - 5925 MHz
			3. Q: what are the RLAN rules being considered?
			4. A- U-NII 2 rules are the starting point for coexistence analysis. See NTIA TM 09-461 Description of a model to compute the aggregate interference from RLANs employing Dynamic Frequency Selection to radars operating in the 5 GHz Frequency Range
			5. CSMAC slides shown
				1. **Commerce Spectrum Management Advisory Council**
				2. **Meeting held March 1, 2012**
				3. **Draft discussions on unlicensed spectrum**
				4. **Should all unlicensed access require database control?**
				5. **Expected to take decisions in July**
6. Regulatory Summary- European Union (slide 11)
7. Regulatory Summary- Asia (slide 12)
	1. MIIT has approved UHT/E-UHT (TDM) as “voluntary” standards
	2. May result in opening 5170-5330 MHz
	3. IEEE-SA has committed to translate the standards into English when the standards become available.
8. Critical Issues Actions (slide 13)
	1. **Lufthansa DA2GC**
		1. FM PT48 recommended 2.4 GHz band not be used
		2. More industry input needed to support this viewandard
		3. There was much discussion about the DA2GC and license-exempt device limits in 2.4 GHz and 5.8 GHz
9. Chair describes **Interesting Websites and Documents (slide 19)**
	1. Chair will update FCC Spectrum Dashboard URL
10. Last topic is Regulatory review of base standard
	1. e.g.EU 5.8 GHz at 25 mW EIRP SRD is allowed but not listed for .11n or .11ac
11. Adjourned at 14:45 local time

**Attendees**

Stuart J. Kerry (OK-BRIT)

Peter Ecclesine (Cisco Systems)

Tefvik Yucek (Qualcomm)

Joseph Levy (InterDigital)

Wookbong Lee (LG Electronics)

Ron Porat (Broadcom)

Bruce Kraemer (Marvel)

Jim Lansford (CSR)

Jens Tingleff (CSR)

Bill Carney (Sony)

Satoshi Oyama (ARIB)

Padam Kafle (Nokia)

Hiroyo Ogama (ARIB)

Plilippe Boucachard (Canon Research France)

Ian Sherlock (Texas Instruments)

Yohannes Alemseged (NICT)

Chen Sun (NICT)

Zhou Lan (NICT)

Dave Halasz (Motorola Mobility)

Timo Koskola (Renesas Mobile Corporation)

Larry Stefani (General Dynamics)

Graham Smith (DSP Group)

**References**

* + **US Spectrum and Spectrum Auction Bill: (**[**https://mentor.ieee.org/802.11/dcn/12/11-12-0312-00-0reg-us-spectrum-bill-text.docx**](https://mentor.ieee.org/802.11/dcn/12/11-12-0312-00-0reg-us-spectrum-bill-text.docx)**)**
	+ **CSMAC March 1st meeting documents**
		- [**Meeting Agenda and Teleconference Information**](http://www.ntia.doc.gov/files/ntia/meetings/csmac_agenda_mar_1_2012.doc)
		- [**CSMAC Spectrum Sharing Subcommittee Discussion Materials, March 2012**](http://www.ntia.doc.gov/files/ntia/meetings/csmac_spectrum_sharing_wg_summary_01mar2012_v1.ppt)
		- [**CSMAC Spectrum Sharing Subcommittee Working Notes**](http://www.ntia.doc.gov/files/ntia/meetings/csmac_spectrum_sharing_workinggroup_notes_03feb2012_v3.pdf)
		- [**Developing a Collaborative Spectrum Sharing and Impact Analysis Process**](http://www.ntia.doc.gov/files/ntia/meetings/csmac_process_for_developing_sharing_and_impact_analysis_2-17-12_v1.pdf)
		- [**CSMAC Search for 500 MHz Working Group Recommendations**](http://www.ntia.doc.gov/files/ntia/meetings/csmac_search_1755-1850_recommendations_final.ppt)
		- [**Separate Statement on Search for 500 MHz Working Group Recommendations**](http://www.ntia.doc.gov/files/ntia/meetings/500mhz_statement1.doc)
		- [**LTE (FDD) Transmitter Characteristics**](http://www.ntia.doc.gov/files/ntia/meetings/lte_technical_characteristics_0.doc)
		- [**Report of the Spectrum Management Improvements Working Group**](http://www.ntia.doc.gov/files/ntia/meetings/sm_improvements_report_second_question.pdf)
		- [**NTIA Response to CSMAC Recommendations**](http://www.ntia.doc.gov/files/ntia/meetings/ntia_evaluation_of_csmac_recommendations_for_cy_2011_120220.doc)
		- [**Unlicensed Subcommittee Draft Recommendations on Enforcement**](http://www.ntia.doc.gov/files/ntia/meetings/csmac_unlicensedcomm_enforcement_adoptiondraft_final_022412.doc)
		- [**Unlicensed Subcommittee Proposal for an Interference Clearinghouse Website**](http://www.ntia.doc.gov/files/ntia/meetings/unlicensedsubcomm_interference_clearinghouse_website_discussiondraft_ds_022412.doc)
		- [**Federal Register Notice**](http://www.ntia.doc.gov/federal-register-notice/2012/commerce-spectrum-management-advisory-committee-meeting)
	+ **EN 300 328 v1.8.0: (**[**https://mentor.ieee.org/802.18/dcn/12/18-12-0004-00-0000-en-300-328-v1-8-0.pdf**](https://mentor.ieee.org/802.18/dcn/12/18-12-0004-00-0000-en-300-328-v1-8-0.pdf)**)**
	+ **France 2.4 GHz rules change:** [**http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:289:0019:0020:EN:PDF**](http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:289:0019:0020:EN:PDF)
	+ **EN 301 893 v1.7.1: (**[**https://mentor.ieee.org/802.18/dcn/12/18-12-0005-00-0000-en-801-893-v1-7-1-initial-draft.doc**](https://mentor.ieee.org/802.18/dcn/12/18-12-0005-00-0000-en-801-893-v1-7-1-initial-draft.doc)**)**
	+ **Ofcom “Draft regulatory requirements for white space devices in the UHF TV band” updated 16FEB2012: (**[**https://mentor.ieee.org/802.18/dcn/12/18-12-0019-00-0000-ofcom-input-to-etsi-bran-tvws-work-item.pdf**](https://mentor.ieee.org/802.18/dcn/12/18-12-0019-00-0000-ofcom-input-to-etsi-bran-tvws-work-item.pdf)**)**
	+ **House of Lords investigate superfast broadband: (**[**http://www.digitaltveurope.net/20890/house-of-lords-to-investigate-superfast-broadband/**](http://www.digitaltveurope.net/20890/house-of-lords-to-investigate-superfast-broadband/)
	+ **European Parliament Radio Spectrum Policy Programme:** [**https://mentor.ieee.org/802.18/dcn/12/18-12-0020-00-0000-european-parliament-radio-spectrum-policy-programme.pdf**](https://mentor.ieee.org/802.18/dcn/12/18-12-0020-00-0000-european-parliament-radio-spectrum-policy-programme.pdf)
	+ **Direct Air to Ground Data Connectivity for A/C Use of License Exempt Spectrum: (**[**https://mentor.ieee.org/802.18/dcn/12/18-12-0006-00-0000-lufthansa-da2gc-presentation.pdf**](https://mentor.ieee.org/802.18/dcn/12/18-12-0006-00-0000-lufthansa-da2gc-presentation.pdf)**)**

**Interesting Websites**

* + **FCC Spectrum Dashboard: (**[**http://reboot.fcc.gov/spectrumdashboard/resultSpectrumBands.seam?conversationId=1533**](http://reboot.fcc.gov/spectrumdashboard/resultSpectrumBands.seam?conversationId=1533)**)**
	+ **Second Interim Progress Report on the Ten-Year Plan and Timetable: (**[**http://www.ntia.doc.gov/files/ntia/publications/second\_interim\_progress\_report\_on\_the\_ten\_year\_plan\_and\_timetable.pdf**](http://www.ntia.doc.gov/files/ntia/publications/second_interim_progress_report_on_the_ten_year_plan_and_timetable.pdf)**)**
	+ **FCC Technical Advisory Council, December 2011: (**[**http://transition.fcc.gov/oet/tac/tacdocs/tac-meeting-summary-12-20-11-final.pdf**](http://transition.fcc.gov/oet/tac/tacdocs/tac-meeting-summary-12-20-11-final.pdf)**)**