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**IEEE P802.11  
Wireless LANs**

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**Tentative Minutes of IEEE P802.11/P802.15 Joint Session**

**Sonoma Hilton Hotel, Santa Rosa, California**

**Wednesday, 15 Sep 1999 Joint Meeting of IEEE P802.11 and P802.15**

Scheduled: 1:00pm – 3:00pm

**1. Opening**

Meeting called to order by Vic Hayes at 1:05 PM and David Skellern, Secretary 802.11 was ready to take the meeting notes.

**1.1 Roll call**

All present at the start of the meeting introduced themselves. 50 people were present during the session.

**1.2 Document list update**

Vic Hayes and Bob Heile noted the following new documents of interest to both WGs:

- doc.:802.11-99/209r2 Proposal for a second letter for filing in the proceedings of FCC OET docket number 99-231 (Jim Zyren, Jan Boer, Donald C Johnson)
- doc.:802.11-99/210r2 Proposal for a third letter for filing in the proceedings of FCC OET docket number 99-231 (John Faketselis, Jan Boer)
- doc.:802.15-99/097 Venue for May meeting.
- doc.:802.15-99/100 Coexistence study group report.
- doc.:802.15-99/065 CFP

**1.3 Agenda update**

No new items were added to the business agenda proposed for the Joint 802.11/802.15 meeting.

Vic Hayes explained that votes would be counted separately for each group.

Motion 99/58P08            To approve the agenda as proposed  
 Moved Dick Eckard  
 Second Harry Worstel

Discussion: none

**Motion Passes: 802.11 18-0-0; 802.15 11-0-0.**

**1.4 Announcements**

- There will be a seminar on SDL at 1315 Thursday, hosted by 802.15. All invited.
- Wednesday evening social buses to leave at 1700 sharp.
- Vic Hayes advised that there will be photos taken for the web site. There were no objections to photos being taken and placed on the web site.

**2. Old business**

**2.1 Liaison officers**

Vic Hayes reported that Bruce Kraemer, Stuart Kerry and Peter Murray were appointed as 802.11 liaisons to 802.15 (motion 99/57P24 at the Montreal meeting).

**2.2 Review 802.15 Call for Proposals/Participation submissions**

Ian Gifford summarised doc.:802.15-99/065 and presented a few slides (28-30) from doc.:802.15-99/63R1. He advised that the Montreal meeting report is doc.:802.15-99/30.

There were 1141 Bluetooth promoters as of yesterday.

Ian reported on a meeting between Bluetooth, the ETSI Secretariat and IEEE on standardization of Bluetooth. The minutes of that meeting are doc.:802.15-99/85. The IEEE pitch used in the meeting is in doc.:802.15-99/87. The gist is that IEEE has engaged in contracts with Bluetooth (see July Standards Bearer re liaison IEEE-Bluetooth). The only standardisation thread proceeding at present in 802.15 is on Bluetooth in TG1, chaired by Ian Gifford.

However, Bluetooth has layers above those addressed by 802 committees. Having a 7-layer standard is compelling - ETSI could handle the upper layers not covered by IEEE.

### 2.3 Review Joint Regulatory activities

#### 2.3.1 ET Docket 99-231 NPRM Amendment of Part 15 rules

Carl Andren was chair of the ad hoc group formed to review material and formulate letters to be forwarded in regard to FCC NPRM OET docket number 99-231 on processing gain and bandwidth regulation increases to 3 and 5 MHz. Carl summarised the detailed report of discussions by the group (detailed report is doc.:802.11-99/214).

Papers presented to the group were:

- Wideband FH NPRM Discussion (Ben Manny and Jim Lansford) doc.:802.11-99/201
- WBFH Overlap Channels (Jim Zyren) doc.:802.11-99/202
- Effects of WBFH Power Reduction and Hop Rate (Jim Zyren) doc.:802.11-99/203
- Wideband Gaussian Noise (Jan Boer) doc.:802.11-99/204
- WBFH interference (Don Johnson, presented by John Fakatselis) doc.:802.11-99/205
- WBFH and Multipath (Jan Boer) doc.:802.11-99/206

Several unsuccessful motions were put to the ad hoc group regarding proposals to be put to the full working group. One motion requesting referral of the material in WBFH interference to the IEEE EMC (C63) committee for investigation passed 3-2-1 with the vote of the Chair deciding the outcome. A straw poll of this Joint meeting showed general lack of support for such referral.

#### 2.3.2 RF Lighting

No new activity.

### 2.4 P802.15 Hosted Venue choices

- Mike McInnis spoke to doc.:802.15-99/097. Straw poll results showed a marked preference for the Madisson Hotel with lunches.
- The tentative host for September 2000 is FedEx in Memphis, Tennessee. The tentative venue is a hotel with a Conference Centre in walking distance. There were no alternative venues volunteered.

## 3. New Business

### 3.1 802.11 new study group

John Fakatselis reported on discussions to date in the SG for 802.11 enhancements. The aim is to generate candidate enhancement projects and produce an initial draft on objectives. From there in Nov'99 we will write an initial PAR draft, in Jan'00 finalize projects, update PAR, and in Mar'00, finalize the PAR.

John asked for suggestions from 802.15 about enhancements to the 802.11 MAC and noted the schedule for the remainder of this meeting.

It was proposed that we enhance the state diagrams. The potential of these is much higher, including the possibility that they could be enhanced to allow them also to be used to make a model.

One member asked if there has been any discussion about a MAC light. There has been none.

### 3.2 802.15 new study group on co-existence

Steve Shellhammer spoke to doc.:802.15-99/088r2, the proposed Study Group Charter. It is clear that WPAN and WLAN devices will need to coexist in some cases. The charter addressed:

- Need for coexistence
- Definition of coexistence
- Scope of coexistence task group
- Purpose of the model - traffic, mac, propagation - analysis, simulation, measurement.
- Plan of work
- Coordination with 802.11

Steve also noted doc.:802.15-99/100r0, a report on the SG activities to date. He welcomed input from 802.11 members.

### 3.3 RFID devices

These devices are a replacement of a BAR-code tag with a device that is RF interrogated. CEPT PT SE24S has requested 5W power limit for their devices in the 2.45 GHz bands.

Radio LANs are non-protected, non-interfering, and so there is little we can do to directly stop this. But there are primary and secondary users - news gathering (ENG/OB) and point-to-point links, including military. The RFID group is now considering limiting its spectral band usage.

If these devices are limited in Europe, the proposal is that we ask for a voluntary limitation to the same area as in Europe. It was noted that the current 2.47 GHz regulation in the USA is +36dBm.

#### **3.4 Next meeting**

It was agreed to hold the next Joint meeting of 802.11 and 802.15 in Hawaii, Wednesday 10 November, same time.

#### **4. Closure**

The meeting closed at 1453.