# IEEE 802.11 Wireless Access Method and Physical Specification

Title:

Dates:

# Tentative Minutes to IEEE P802.11 FH-PHY Ad Hoc Group San Diego, CA January 1996

# Draft minutes of the IEEE802.11 FH-PHY Group Meeting held at the Westgate Hotel, San Diego, 8 Jan 96

Meeting opened by Dean Kawaguchi at 1650PST. Peter Chadwick volunteered to be Secretary for the meeting.

#### Agenda.

1. Appoint Vice Chair to handle the March meeting.

- 2. Approval of minutes of Previous Meeting
- 3. Review status of draft Outstanding comments. Congestion after hop. Vote on sec 11.
- 4. MIB Service Primitives PICS Proforma
- 5. Agenda for March meeting
- 6. Approval of Agenda.

#### Agenda Items

### 1. Vice-Chair.

Wayne Moyers volunteered his services, and was elected 2, 0, 1. After discussion regarding the amount of computer preparation required, Wayne withdraws. Dean Kawaguchi nominates Peter Chadwick, seconded by Jim Renfro. Vote 3 - 0 - 1.

### 2. Minutes of Previous Meeting.

Approved by acclamation.

### 4. PICS Proforma.

Changes in format requested by Bob O'Hara. Dean to implement.

# **ACTION: DEAN KAWAGUCHI**

### 6. Approval of Agenda

Wayne Moyers moves, Jim Renfro seconds to approve Agenda. Unanimous acceptance.

#### Adjournment

Wayne Moyers moves, Jim Renfro seconds to adjourn. Unanimous acceptance.

Meeting reconvenes at 1325 PST Tuesday, 9 Jan 96

#### **Congestion after Hop**

Jim McDonald has raised the problem of collisions immediately after hopping. There is a requirement to reset the channel access mechanism after hopping to avoid collisions where several stations have traffic which was not sent because of insufficient time remaining prior to the hop.

After discussion, it was decided on a straw poll to recommend that after a hop had taken place, there would be a new back-off number chosen.

Jim Renfro moved that the group recommend that the MAC group implement the above change. Seconded by Peter Chadwick. Voted 3 - 0 - 2

### **ACTION: DEAN KAWAGUCHI**

#### Adaptive Back-off

Move to add to the FH-PHY Agenda "Discussion of Adaptive Back-off". Moved by Art Lashbrook, seconded by Peter Chadwick. Voted 1 - 0 - 3. Agreed to limit discussion to 15 minutes.

Art Lashbrook suggested that efficiency could be increased under low load conditions by using an adaptive back-off algorithm. Decided that the topic had some virtue, but that it was not great, and that it was very late in the day to introduce the matter.

#### **PICS Pro-Forma**

Dean Kawaguchi introduced the PICS pro-forma table. After discussion, it was decided that where items related to the support of service primitives from optional to mandatory.

# **ACTION: DEAN KAWAGUCHI**

#### Sect 11 as revised

After various computer problems, the revised version of Sect 11 was made available electronically.

Meeting adjourned 1720 PST

Meeting reconvened 1330PST Weds 10 Jan 96

### CCA Busy during Hop

It was moved by Dean Kawaguchi, seconded Peter Chadwick, that the CCA should indicate "Busy" during a hop, and that "hop duration" should be a period of 224µs, starting from the time that the radio is commanded to change channel. Vote unanimous.

Dean Kawaguchi to take this forward to the Plenary.

# **ACTION: DEAN KAWAGUCHI**

Adjourned at 1420 PST until 1500PST to allow members time to read the updated section of the Standard.

Various minor spelling corrections were added to section 11 of the Standard.

For future reference, it was decided that the frequency ranges for France should be 2448 MHz - 2482MHz, and for Spain 2447MHz - 2473MHz. It was not considered practical to produce suitable hopping tables for those countries for inclusion within the next revision of the Standard within the time available, although it was **NOTED** that the inclusion of tables for those countries was desirable in terms of acceptance at ISO/IEC.

The MIB was reviewed, and various changes edited in.

Meeting adjourned at 1728 PST,

Meeting reconvened at 0845 PST, 11 Jan 96.

Discussion on the MIB, and the requirements for Section 10.

Moved by Dean Kawaguchi, seconded by Ron Mahaney, that the static MIB parameter "aPREF\_MAX\_MPDU\_FRGMNT\_Lngth" be inserted in the MIB with a value of 400 octets. Question called Peter Chadwick, sec Jim Renfro. Question called by acclamation. On a vote, 4-2-0.

Matter to be taken to the Plenary for ratification

# **ACTION: DEAN KAWAGUCHI**

The various changes to the MIB were approved and adopted by acclamation.

Changes to be taken to the Plenary for ratification

# **ACTION: DEAN KAWAGUCHI**

Moved by Dean Kawaguchi, seconded by Peter Chadwick, to accept the changes made at the January 1996 meeting to clause 11 of the FH-PHY on the edited text from the November 1995 meeting as documented in the distributed draft text, for inclusion in D3.0.

Passed 5 - 0 - 1.

### AGENDA for March 1996

1. Resolution of outstanding letter Ballot Comments

# January, 1996

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2. Review of requirements for other countries.

Meeting adjourned 1104 PST.

### ATTENDANCE AT THE FH PHY

Peter Chadwick George Fishel Dean Kawaguchi Art Lashworth Ron Mahaney Jim McDonald Wayne Moyers Jim Renfro Mack Sullivan