

IEEE 802.11 Committee

Tentative Minutes of the FH PHY Meeting held in Schaumburg, August 28 to 31, 1995.

Jim McDonald serving as Chair
Peter Chadwick recording minutes

FH SESSION 1 - August 28, 1995 10:30am

Agenda is:-

to review the draft standard. Dean to guide the discussion.

Issues are:- Japanese regulations - P. Chadwick
CCA - Jim McDonald.
MIB inputs - Dean Kawaguchi.

Dean presented the latest review, incorporating the changes agreed at the Hawaii meeting.

EDITORIAL AMENDMENTS

Suggested that the PLCP Signalling Field in Table 11-3. Bit 0 has been used, so stays reserved with a default value of 0.

References to figs 10-7a and 10-11a in para 11.3.2.3 to become 11-7a and 11-11a.

In Section 11.3.3.1, references to sect 10 to become section 11

RX - TX time in 11.3.3.1.2 to be corrected to be consistent with the FH PHY MIB.

Moved to break for lunch at 1145 by Jim McDonald, sec Dean Kawaguchi, passed by acclamation.

FH SESSION 2 - August 28, 1995, 1:15PM

Discussion on CCA sensitivity. Jim McDonald spoke to the costs of the 'like PHY' CCA detection, where detection of the 2 Mbps 4GFSK is more difficult than detection of the 1 Mbps 2 GFSK. Arguments followed regarding the performance requirements of 4GFSK receivers and the effects on CCA. No decision was reached, but individual members are encouraged to make suitable comments on the letter ballot. Sect 11.3.3.2.1 is not explicit as to speed. Some arguments suggested that CCA was in fact practically useless.

Areas considered were:

4 level CCA

Adjacent channel impact on CCA

802.11 defers to non 802 equipments, but not vice versa

Is CCA a good idea.

Discussion on Compliance Testing.

It was proposed that the compliance testing should only be made at exposed interfaces, and that radiated testing should be done. It was suggested that regulatory compliance testing would require special software or MAC hooks: it was felt that such requirements were outside the scope of the committee.

Various aspects of interoperability were considered. It was pointed out that the 802.11 radio stopped at the top of the MAC layer, and that the layers above that affected interoperability. It was suggested that the MAC should have loop back facilities built into it. There was a question as to how this would be implemented - it could be in ROM, or in special test software sitting on top of the MAC. The time problem is such that it may be necessary to either put out the production of interoperability test hardware, or to use volunteer hardware from various companies.

On straw polls

Exposed interface testing only

Radiated v. conductive testing v either either wins.

non invasive testing only

dynamic as opposed static testing - interoperability only

test bed v. test document for compliance claiming. both needed

test bed v. test document for interoperability testing. both needed.

Adjourned at 1615

FH SESSION 3 - August 29, 1995, 1:15PM

Tuesday pm.

Discussion on the modus operandi of producing the PICS pro-forma document. Dean Kawaguchi volunteered to do some work: Ed Geiger was volunteered. The DS group suggested that they would identify the MAC and PHY sections applicable, and the joining would be done later. Dean said that the majority of the FH work would derive from the PMD section.

Considered that the volunteers, Jonathan, Dean, Ed, and any other volunteers will look to making an input to the next meeting. Dave Bagby will be approached for the names of volunteers from the MAC group. Dean will put out an e mail appealing for volunteers to help with the FH side: Peter to make an e mail announcement generally requesting volunteers.

It was suggested that once an interoperability standard of a de facto nature exists, there will be no encouragement to produce a Conformance Test Document.

The group concluded that physical interoperability testing sponsored by the 802.11 committee was not part of the Committee's remit. On a straw poll, this was agreed with 9 in favour, 0 against, and 2 abstentions.

It was suggested that interoperability testing should not be specified by the Committee, but is better left to manufacturers to determine in informal manner.

On a straw poll, this was accepted 11 for, 0 against and 2 abstentions. Wayne felt that interoperability did not prove compliance.

Jim McDonald presented his queries on CCA timing. These were discussed and not thought to be a problem. A further problem raised informally during a break by a member of the MAC group was discussed. This involved the question of whether or not the slot timer should be set to 'hold' during a frequency change.

FH SESSION 4 - August 30, 1995, 8:30 PM

Meeting opened by Jim McDonald. Agenda for the day is to discuss the Japanese spec requirements, and split into small groups to review the FH spec, or join MAC group discussions.

Dean opened the discussion by saying that he was opposed to the inclusion of local regulatory requirements, especially in view of the conflicting reports that are obtained from Japanese sources. Jonathan Cheah was also against such inclusion.

After discussion, it was generally felt that the retention of the status quo within the standard was satisfactory, but individuals who consider the existing standard inadequate should make suitable comments on the letter ballott. Proposed to adjourn to ad hoc groups.

Moved Dean Kawaguchi, sec. Peter Chadwick
Adjourned.

