IEEE P802.11

Wireless Access Method and Physical Layer Specification

MAC MIB Changes Resulting from Adoption of PCF Changes in Document 95/140

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Abstract

Document 95/140 contained corrections and clarifications to the PCF definition in section 6.3 of the D1.2 draft, and the corresponding updates to selected paragraphs in section 4. Unfortunately, the corresponding material that needed to be inserted in section 8 was omitted from 95/140. That material is provided herein.

NOTE: This document was not distributed at the July, 1995 meeting of 802.11, although its subject matter was discussed in the report to the MAC group from the Section 6 sub-group.

MAC MIB Elements Added by the Section 6.3 Update in Document 95/140

NOTE: The instances of time in milliseconds have already been changed to Kmicroseconds to reflect the decision adopted from document 95/149r1.

0.0.0.0.1. aCFP_Rate

CFP_Rate ATTRIBUTE
WITH APPROPRIATE SYNTAX
    integer;
BEHAVIOUR DEFINED AS
    "This attribute indicates the number of beacon intervals between the beacons which start contention free periods.";
REGISTERED AS
    { iso(1) member-body(2) us(840) ieee802dot11(10036) MAC(1) attribute(7) cfp_rate(###) };

0.0.0.0.2. aCFP_Max_Duration

CFP_Max_Duration ATTRIBUTE
WITH APPROPRIATE SYNTAX
    integer;
BEHAVIOUR DEFINED AS
    "This attribute indicates the maximum amount of time, in units of 1024 microseconds, between the end of the beacon frame that starts a contention free period and the end of the CF–End or CF–End+Ack frame that ends the contention free period.";

REGISTERED AS
{ iso(1) member-body(2) us(840) ieee802dot11(10036) MAC(1) attribute(7) cfp_max_duration(###) };

0.0.0.0.3. aMax_MPDU_Time

Max_MPDU_Time ATTRIBUTE
WITH APPROPRIATE SYNTAX
integer;
BEHAVIOUR DEFINED AS
"This attribute indicates the length of time, in microseconds, to transmit an MPDU of length aFragmentation_Threshold octets, including all PHY framing overhead, plus the value of aDIFS, plus the value of aCWmin.";
REGISTERED AS
{ iso(1) member-body(2) us(840) ieee802dot11(10036) MAC(1) attribute(7) max_mpdu_time(###) };

0.0.0.0.4. aMedium_Occupancy_Limit

Medium_Occupancy_Limit ATTRIBUTE
WITH APPROPRIATE SYNTAX
integer;
BEHAVIOUR DEFINED AS
1. "This attribute indicates the maximum amount of time, in units of 1024 microseconds, that a point coordinator may control the usage of the wireless medium without relinquishing control for long enough to allow at least one instance of DCF access to the medium.";

REGISTERED AS
{ iso(1) member-body(2) us(840) ieee802dot11(10036) MAC(1) attribute(7) medium_occupancy_limit(###) };