

**IEEE Standard for
Information technology—
Telecommunications and information
exchange between systems—
Local and metropolitan area networks—
Specific requirements**

**Part 11: Wireless LAN Medium Access Control
(MAC) and Physical Layer (PHY) specifications**

**Amendment 2: Higher-speed Physical Layer (PHY)
extension in the 2.4 GHz band—
Corrigendum 1**

IEEE Computer Society

Sponsored by the
LAN/MAN Standards Committee

This amendment is an approved IEEE
Standard. It will be incorporated into the
base standard in a future edition.



Published by
The Institute of Electrical and Electronics Engineers, Inc.
3 Park Avenue, New York, NY 10016-5997, USA

7 November 2001

Print: SH94952
PDF: SS94952

*Recognized as an
American National Standard (ANSI)*

IEEE Std 802.11b-1999/Cor 1-2001 (R2003)
*(Corrigendum to
IEEE Std 802.11b-1999)*

**IEEE Standard for
Information technology**

**Telecommunications and information
exchange between systems**

Local and metropolitan area networks

Specific requirements

**Part 11: Wireless LAN Medium Access Control
(MAC) and Physical Layer (PHY) specifications**

**Amendment 2: Higher-speed Physical Layer (PHY)
extension in the 2.4 GHz band**

Corrigendum 1

Sponsor

**LAN/MAN Standards Committee
of the
IEEE Computer Society**

Approved 10 October 2001

IEEE-SA Standards Board

Approved 30 January 2002

American National Standards Institute

Abstract: *Changes and additions are provided for IEEE Std 802.11b-1999 to support the higher rate Physical Layer for operation in the 2.4 GHz band.*

Keywords: *LAN, Local Area Network, Wireless, Radio Frequency*

*The Institute of Electrical and Electronics Engineers, Inc.
3 Park Avenue, New York, NY 10016-5997, USA*

*Copyright © 2001 by the Institute of Electrical and Electronics Engineers, Inc.
All rights reserved. Published 7 November 2001. Printed in the United States of America.*

*Print: ISBN 0-7381-3001-X SH94952
PDF: ISBN 0-7381-3002-8 SS94952*

No part of this publication may be reproduced in any form, in an electronic retrieval system or otherwise, without the prior written permission of the publisher.

IEEE Standards documents are developed within the IEEE Societies and the Standards Coordinating Committees of the IEEE Standards Association (IEEE-SA) Standards Board. The IEEE develops its standards through a consensus development process, approved by the American National Standards Institute, which brings together volunteers representing varied viewpoints and interests to achieve the final product. Volunteers are not necessarily members of the Institute and serve without compensation. While the IEEE administers the process and establishes rules to promote fairness in the consensus development process, the IEEE does not independently evaluate, test, or verify the accuracy of any of the information contained in its standards.

Use of an IEEE Standard is wholly voluntary. The IEEE disclaims liability for any personal injury, property or other damage, of any nature whatsoever, whether special, indirect, consequential, or compensatory, directly or indirectly resulting from the publication, use of, or reliance upon this, or any other IEEE Standard document.

The IEEE does not warrant or represent the accuracy or content of the material contained herein, and expressly disclaims any express or implied warranty, including any implied warranty of merchantability or fitness for a specific purpose, or that the use of the material contained herein is free from patent infringement. IEEE Standards documents are supplied “**AS IS.**”

The existence of an IEEE Standard does not imply that there are no other ways to produce, test, measure, purchase, market, or provide other goods and services related to the scope of the IEEE Standard. Furthermore, the viewpoint expressed at the time a standard is approved and issued is subject to change brought about through developments in the state of the art and comments received from users of the standard. Every IEEE Standard is subjected to review at least every five years for revision or reaffirmation. When a document is more than five years old and has not been reaffirmed, it is reasonable to conclude that its contents, although still of some value, do not wholly reflect the present state of the art. Users are cautioned to check to determine that they have the latest edition of any IEEE Standard.

In publishing and making this document available, the IEEE is not suggesting or rendering professional or other services for, or on behalf of, any person or entity. Nor is the IEEE undertaking to perform any duty owed by any other person or entity to another. Any person utilizing this, and any other IEEE Standards document, should rely upon the advice of a competent professional in determining the exercise of reasonable care in any given circumstances.

Interpretations: Occasionally questions may arise regarding the meaning of portions of standards as they relate to specific applications. When the need for interpretations is brought to the attention of IEEE, the Institute will initiate action to prepare appropriate responses. Since IEEE Standards represent a consensus of concerned interests, it is important to ensure that any interpretation has also received the concurrence of a balance of interests. For this reason, IEEE and the members of its societies and Standards Coordinating Committees are not able to provide an instant response to interpretation requests except in those cases where the matter has previously received formal consideration.

Comments for revision of IEEE Standards are welcome from any interested party, regardless of membership affiliation with IEEE. Suggestions for changes in documents should be in the form of a proposed change of text, together with appropriate supporting comments. Comments on standards and requests for interpretations should be addressed to:

Secretary, IEEE-SA Standards Board
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
USA

Note: Attention is called to the possibility that implementation of this standard may require use of subject matter covered by patent rights. By publication of this standard, no position is taken with respect to the existence or validity of any patent rights in connection therewith. The IEEE shall not be responsible for identifying patents for which a license may be required by an IEEE standard or for conducting inquiries into the legal validity or scope of those patents that are brought to its attention.

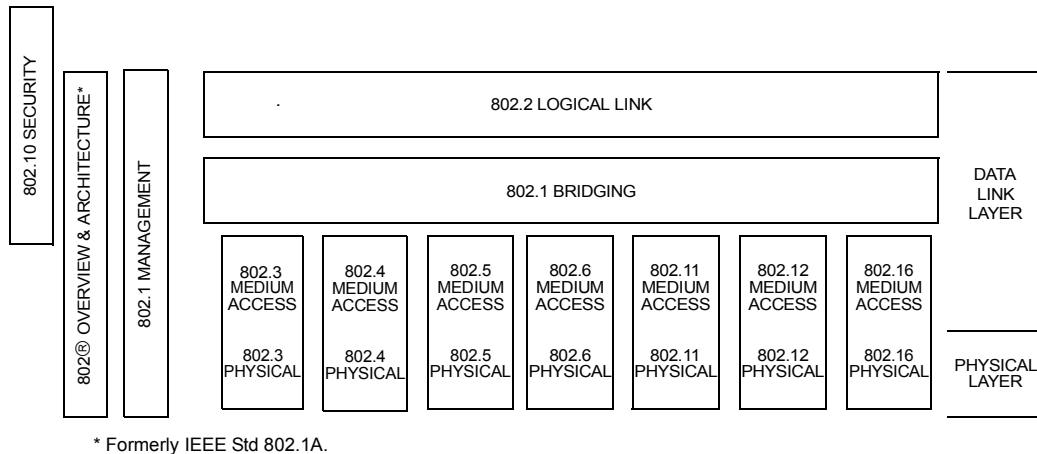
The IEEE and its designees are the sole entities that may authorize the use of IEEE-owned certification marks and/or trademarks to indicate compliance with the materials set forth herein.

Authorization to photocopy portions of any individual standard for internal or personal use is granted by the Institute of Electrical and Electronics Engineers, Inc., provided that the appropriate fee is paid to Copyright Clearance Center. To arrange for payment of licensing fee, please contact Copyright Clearance Center, Customer Service, 222 Rosewood Drive, Danvers, MA 01923 USA; +1 978 750 8400. Permission to photocopy portions of any individual standard for educational classroom use can also be obtained through the Copyright Clearance Center.

Introduction

This introduction is not part of IEEE Std 802.11b-1999/Cor 1-2001, IEEE Standard for Information technology—Telecommunications and information exchange between systems—Local and metropolitan area networks—Specific requirements—Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications—Amendment 2: Higher-speed Physical Layer (PHY) extension in the 2.4 GHz band—Corrigendum 1.

This standard is a part of a family of standards for local and metropolitan area networks. The relationship between the standard and other members of the family is shown below. (The numbers in the figures refer to IEEE standard numbers.)



This family of standards deals with the Physical and Data Link Layers as defined by the International Organization for Standardization (ISO) Open Systems Interconnection Basic Reference Model (ISO/IEC 7498-1:1994). The access standards define several types of medium access technologies and associated physical media, each appropriate for particular applications or system objectives. Other types are under investigation.

The standards defining the technologies noted above are as follows:

- IEEE Std 802¹: *Overview and Architecture.* This standard provides an overview to the family of IEEE 802[®] Standards. This document forms part of the IEEE 802.1 scope of work.
- ANSI/IEEE Std 802.1B and 802.1K [ISO/IEC 15802-2]: *LAN/MAN Management.* Defines an Open Systems Interconnection (OSI) management-compatible architecture, and services and protocol elements for use in a LAN/MAN environment for performing remote management.
- ANSI/IEEE Std 802.1D: *Medium Access Control (MAC) Bridges.* Specifies an architecture and protocol for the [ISO/IEC 15802-3]:interconnection of IEEE 802 LANs below the MAC service boundary.
- ANSI/IEEE Std 802.1E [ISO/IEC 15802-4]: *System Load Protocol.* Specifies a set of services and protocol for those aspects of management concerned with the loading of systems on IEEE 802 LANs.

¹The IEEE 802 Architecture and Overview Specification, originally known as IEEE Std 802.1A, has been renumbered as IEEE Std 802. This has been done to accommodate recognition of the base standard in a family of standards. References to IEEE Std 802.1A should be considered as references to IEEE Std 802.

- ANSI/IEEE Std 802.1F *Common Definitions and Procedures for IEEE 802 Management Information.*

- ANSI/IEEE Std 802.1G [ISO/IEC 15802-5]: *Remote Media Access Control (MAC) Bridging.* Specifies extensions for the interconnection, using non-LAN systems communication technologies, of geographically separated IEEE 802 LANs below the level of the logical link control protocol.

- ANSI/IEEE Std 802.1H [ISO/IEC TR 11802-5] *Recommended Practice for Media Access Control (MAC) Bridging of Ethernet V2.0 in IEEE 802 Local Area Networks.*

- ANSI/IEEE Std 802.1Q *Virtual Bridged Local Area Networks.* Defines an architecture for Virtual Bridged LANs, the services provided in Virtual Bridged LANs, and the protocols and algorithms involved in the provision of those services.

- ANSI/IEEE Std 802.2 [ISO/IEC 8802-2]: *Logical Link Control.*
- ANSI/IEEE Std 802.3 [ISO/IEC 8802-3]: *CSMA/CD Access Method and Physical Layer Specifications.*
- ANSI/IEEE Std 802.4 [ISO/IEC 8802-4]: *Token Bus Access Method and Physical Layer Specifications.*
- ANSI/IEEE Std 802.5 [ISO/IEC 8802-5]: *Token Ring Access Method and Physical Layer Specifications.*
- ANSI/IEEE Std 802.6 [ISO/IEC 8802-6]: *Distributed Queue Dual Bus Access Method and Physical Layer Specifications.*

- ANSI/IEEE Std 802.10: *Interoperable LAN/MAN Security.* Currently approved: Secure Data Exchange (SDE).

- ANSI/IEEE Std 802.11: *Wireless LAN Medium Access Control (MAC) Sublayer and [ISO/IEC 8802-11]Physical Layer Specifications.*

- ANSI/IEEE Std 802.12: [ISO/IEC 8802-12] *Demand Priority Access Method, Physical Layer and Repeater Specification.*

- IEEE Std 802.15: *Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for: Wireless Personal Area Networks.*

- IEEE Std 802.16: *Standard Air Interface for Fixed Broadband Wireless Access Systems.*

- IEEE Std 802.17: *Resilient Packet Ring Access Method and Physical Layer Specifications.*

In addition to the family of standards, the following is a recommended practice for a common Physical Layer technology:

- IEEE Std 802.7: *IEEE Recommended Practice for Broadband Local Area Networks.*

The reader of this standard is urged to become familiar with the complete family of standards.

Conformance test methodology

An additional standards series, identified by the number 1802, has been established to identify the conformance test methodology documents for the IEEE 802 family of standards. Thus the conformance test documents for IEEE 802.3 are numbered 1802.3, the conformance test documents for IEEE 802.5 will be 1802.5, and so on. Similarly, ISO will use 18802 to number conformance test standards for 8802 standards.

Participants

At the time this standard was sent to sponsor ballot, the IEEE 802.11 Working Group had the following voting members:

Stuart J. Kerry, *Chair*
Al Petrick, *Vice Chair*
Harry Worstell, *Co-Vice Chair*
Tim Godfrey, *Secretary*

Vic Hayes, *Parliamentarian*
Carl F. Andren, *new Chair Task Group b-corrigendum 1*
Victoria M. Poncini, *original Chair Task Group b-corrigendum 1*
Bob O'Hara, *Parliamentarian and Chair Task Group d*
John Fakatselis, *Chair Task Group e*
David Bagby, *Chair Task Group f*

Jeff Abramowitz
Reza Ahy
Matthew Alspaugh
Keith B. Amundsen
Carl F. Andren
James R. Baker
Kevin M. Barry
Phil Belanger
Simon Black
Jan Boer
Ronald Brockmann
Naftali Chayat
W.C. Chen
Ken Clements
Peter Ecclesine
Richard Eckard
Darwin Engwer
Greg Ennis
Michael Fischer
George Fishel
John Fisher
Amar Ghori
Ian Gifford
Steven D. Gray
Kei Hara
Allen Heberling
Chris Heegard

Robert Heile
Juha Heiskala
Maarten Hoeben
Robert Y. Huang
Masataka Iizuka
Masayuki Ikeda
Donald C. Johnson
Tal Kaitz
Kevin Karcz
Mika Kasslin
Dean M. Kawaguchi
Jamshid Khun-Jush
Patrick Kinney
Duncan Kitchin
Steven Knudsen
John M. Kowalski
Bruce P. Kraemer
Denis Kuwahara
David S. Landeta
Changoo Lee
James S. Li
Stanley Ling
André Martin
Michael D. McInnis
Reiner Mim
Akira Miura
Masahiro Morikura
Peter Murray

Ravi P. Nalamati
Richard van Nee
Erwin R. Noble
Tomoki Ohsawa
Kazuhiro Okanoue
Richard H. Paine
Gregory Parks
Ivan Reede
Stanley A. Reible
Carlos A. Rios
Kent G. Rollins
Anil K. Sanwalka
Matthew B. Shoemake
Thomas Siep
David Skellern
Donald I. Sloan
Gary Spiess
Hitoshi Takanashi
Steve M. Thatcher
Satoru Toguchi
Cherry Tom
Chih C. Tsien
Tom Tsoulogiannis
Robert M. Ward Jr.
Alan Winskowski
Chris Zegelin
Jim Zyren

The following members of the balloting committee voted on this standard. Balloters may have voted for approval, disapproval, or abstention.

Matthew D. Alspaugh
Lek Ariyavisitakul
William E. Ayen
Kevin Barry
Jan Boer
Wesley Brodsky
James T. Carlo
Keith Chow
William C. Crosswy
Thomas J. Dineen
Christos Douligeris
Peter Ecclesine
Richard Eckard
Philip H. Enslow
John W. Fendrich
Kurt B. Fischer
Michael A. Fischer
Gautam Garai
Tim Godfrey

Simon Harrison
Ulrich Hartmann
Vic Hayes
Allen Heberling
Raj Jain
A. Kameron
Stuart J. Kerry
Randolph S. Little
James S. Marin
Peter Martini
Richard McBride
Warren Monroe
Masahiro Morikura
Robert Mortonson
Wayne D. Moyers
Erwin Noble
Ellis S. Nolley
Roger Pandanda
Kenneth L. Peirce

Ronald C. Petersen
Al Petrick
Brian D. Petry
Vikram Punj
Andris Putnins
Stanley A. Reible
Gary S. Robinson
James W. Romlein
Floyd E. Ross
Jaideep Roy
Anil K. Sanwalka
Matthew B. Shoemake
Mark-Rene Uchida
Scott A. Valcourt
Emmanuel Van Lil
Paul A. Willis
Stefan M. Wurster
Wei Zhang
Jonathan M. Zweig

When the IEEE-SA Standards Board approved this standard on 10 October 2001, it had the following membership:

Donald N. Heirman, *Chair*

James T. Carlo, *Vice Chair*

Judith Gorman, *Secretary*

Satish K. Aggarwal
Mark D. Bowman
Gary R. Engmann
Harold E. Epstein
H. Landis Floyd
Jay Forster*
Howard M. Frazier
Ruben D. Garzon

James H. Gurney
Richard J. Holleman
Lowell G. Johnson
Robert J. Kennelly
Joseph L. Koepfinger*
Peter H. Lips
L. Bruce McClung
Daleep C. Mohla

James W. Moore
Robert F. Munzner
Ronald C. Petersen
Gerald H. Peterson
John B. Posey
Gary S. Robinson
Akio Tojo
Donald W. Zipse

*Member Emeritus

Also included is the following nonvoting IEEE-SA Standards Board liaison:

Alan Cookson, *NIST Representative*

Donald R. Volzka, *TAB Representative*

Savoula Amanatidis

IEEE Standards Managing Editor

The marks “**IEEE**” and “**802**” are registered trademarks belonging to the IEEE. When using these marks to refer to The Institute of Electrical and Electronics Engineers, **802** standards or other standards, the marks should be in bold typeface and, at least once in text, use the registered trademark symbol “®”.

Contents

18.	High Rate, direct sequence spread spectrum PHY specification.....	1
1.	Annex A (normative) Protocol implementation conformance statement (PICS) proforma	4
2.	Annex D (normative) ASN.1 encoding of the MAC and PHY MIB.....	8

**IEEE Standard for
Information technology—
Telecommunications and information
exchange between systems—
Local and metropolitan area networks—
Specific requirements
Part 11: Wireless LAN Medium Access Control
(MAC) and Physical Layer (PHY) specifications
Amendment 2: Higher-speed Physical Layer (PHY)
extension in the 2.4 GHz band
Corrigendum 1**

This corrigendum is based on the current edition of IEEE Std 802.11b-1999.

NOTE—The editing instructions contained in this corrigendum define how to merge the material contained herein into the existing base standard to form the new comprehensive standard as created by the addition of IEEE Std 802.11b-1999.

The editing instructions are shown in *bold italic*. Three editing instructions are used: change, delete, and insert. *Change* is used to make small corrections in existing text or tables. The editing instruction specifies the location of the change and describes what is being changed either by using ~~strike through~~ (to remove old material) or underscore (to add new material). *Delete* removes existing material. *Insert* adds new material without disturbing the existing material. Insertions may require renumbering. If so, renumbering instructions are given in the editing instruction. Editorial notes will not be carried over into future editions.

18. High Rate, direct sequence spread spectrum PHY specification

18.4.6 PMD operating specifications, general

Add the following sentences and table at the end of 18.4.6, as done in 802.11a:

Wireless LANS implemented in accordance with this standard are subject to equipment certification and operation requirements established by regional and national regulatory administrations. The PMD specification establishes minimum technical requirements for interoperability, based upon established regulations at the time this standard was issued. These regulations are subject to revision, or may be superceded. Requirements that are subject to local geographic regulations are annotated within the PMD specification. Regulatory requirements that do not affect interoperability are not addressed in this standard. Implementers are referred to the following regulatory sources for further information. Operation in countries within defined regulatory domains may be subject to additional regulations.

The documents listed in 14.6.2 and below specify the current regulatory requirements for various geographic areas at the time the standard was developed. They are provided for geographic information only and are subject to change or revision at any time.

Table 104a—Additional regulatory requirement list

Geographic area	Approval standards	Documents	Approval authority
Japan	Ministry of Public Management, Home Affairs, Post and Telecommunication (MPHPT)	MPHPT Ordinance for Regulating Radio Equipment, Article 49-20	MPHPT

18.4.6.1 Operating frequency range

Replace the text in 18.4.6.1 with the following:

The High Rate PHY shall operate in the 2.4–2.4835 GHz frequency range, as allocated by regulatory bodies in the USA, Europe, and Japan, or in the 2.471–2.497 GHz frequency range, as allocated by regulatory authority in Japan.

18.4.6.2 Number of operating channels

Replace the text in 18.4.6.2 with the following:

The channel center frequencies and CHNL_ID numbers shall be as shown in Table 105. The FCC (US), IC (Canada), MPHPT (Japan), and ETSI (Europe) specify operation from 2.4 GHz–2.4835 GHz. For Japan, operation is additionally specified as 2.471 GHz–2.497 GHz. France allows operation from 2.4465 GHz–2.4835 GHz, and Spain allows operation from 2.445 GHz–2.475 GHz. For each supported regulatory domain, all channels in Table 105 marked with “X” shall be supported.

Replace Table 105 with the following:

Table 105—High Rate PHY frequency channel plan

CHNL_ID	Frequency (MHz)	Regulatory domains						
		X'10' FCC	X'20' IC	X'30' ETSI	X'31' Spain	X'32 France	X'40' Japan	X'41' Japan
1	2412	X	X	X	—	—	—	X
2	2417	X	X	X	—	—	—	X
3	2422	X	X	X	—	—	—	X
4	2427	X	X	X	—	—	—	X
5	2432	X	X	X	—	—	—	X
6	2437	X	X	X	—	—	—	X
7	2442	X	X	X	—	—	—	X
8	2447	X	X	X	—	—	—	X
9	2452	X	X	X	—	—	—	X
10	2457	X	X	X	X	X	—	X
11	2462	X	X	X	X	X	—	X
12	2467	—	—	X	—	X	—	X
13	2472	—	—	X	—	X	—	X
14	2484	—	—	—	—	—	X	—

18.4.6.8 Transmit and receive in-band and out-of-band spurious emissions

Replace the text in 18.4.6.8 with the following:

The High Rate PHY conforms with in-band and out-of-band spurious emissions as set by regulatory bodies. For the USA, refer to FCC 15.247, 15.205, 15.209. For Europe, refer to ETS ETS 300–328. For Japan, refer to MPT ordinance for Regulating Radio Equipment, Article 7.

18.4.7.1 Transmit power levels*Change Table 115 as follows:***Table 115—Transmit power levels**

Maximum output power	Geographic location	Compliance document
1000 mW	USA	FCC 15.247
100 mW (EIRP)	Europe	ETS 300–328
<u>See Table 115a</u>	Japan	MPT ordinance for Regulating Radio Equipment, Article 49-20

*Insert Table 115a after Table 115:***Table 115a—Transmit Power Levels in Japan**

Maximum output power	Modulation/Frequency range	Compliance document
10 mW/MHz	for FH-SS or DS-SS modulation and operation in 2.471 GHz – 2.497 GHz	MPHPT ordinance for Regulating Radio Equipment, Article 49-20
10 mW/MHz	for DS-SS modulation and operation in 2.400GHz –2.4835 GHz	MPHPT ordinance for Regulating Radio Equipment, Article 49-20
3 mW/MHz	for FH-SS modulation and operation in 2.400 GHz –2.4835 GHz	MPHPT ordinance for Regulating Radio Equipment, Article 49-20

Annex A

(normative)

Protocol implementation conformance statement (PICS) proforma

A.4.9 High Rate, direct sequence PHY functions

Change the table in A.4.9 as follows:

Item	PHY Feature	References	Status	Support
HRDS1	Long preamble and header procedures	18.2	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS1.1	Long DS preamble prepended on TX	18.2.1	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS1.2	Long PLCP integrity check generation	18.2.3, 18.2.3.6	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS1.3	TX rate change capability	18.2.3.3	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS1.4	Supported data rates	18.1, 18.2.3.3	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS1.5	Data scrambler	18.2.4	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS1.6	Scrambler initialization	18.2.4	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
*HRDS2	Channel Agility option	18.3.2	O	Yes <input type="checkbox"/> No <input type="checkbox"/>
*HRDS3	Short preamble and header procedures	18.2	O	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS3.1	Short preamble prepended on TX	18.2.2	HRDS3:M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS3.2	Short header transmission	18.2.3.8, 18.2.3.9, 18.2.3.10, 18.2.3.11, 18.2.3.12, 18.2.3.13, 18.2.3.14	HRDS3:M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS4	Long Preamble process on RX	18.2.6	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS4.1	PLCP format	18.2.6	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS4.2	PLCP integrity check verify	18.2.6	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS4.3	RX Rate change capability	18.2.6	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS4.4	Data whitener descrambler	18.2.6	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
*HRDS5	Short Preamble process on RX	18.2.6		Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>

Item	PHY Feature	References	Status	Support
HRDS5.1	PLCP format	18.2.6	HRDS56:M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS5.2	PLCP integrity check verify	18.2.6	HRDS56:M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS5.3	RX rate change capability	18.2.6	HRDS56:M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS5.4	Data whitener descrambler	18.2.6	HRDS56:M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
*HRDS6	Operating channel capability	—	—	—
*HRDS6.1	North America (FCC)	18.4.6.2	HRDS67:O. 3	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.1.1	Channel 1	18.4.6.2	HRDS67.1: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.1.2	Channel 2	18.4.6.2	HRDS67.1: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.1.3	Channel 3	18.4.6.2	HRDS67.1: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.1.4	Channel 4	18.4.6.2	HRDS67.1: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.1.5	Channel 5	18.4.6.2	HRDS67.1: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.1.6	Channel 6	18.4.6.2	HRDS67.1: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.1.7	Channel 7	18.4.6.2	HRDS67.1: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.1.8	Channel 8	18.4.6.2	HRDS67.1: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.1.9	Channel 9	18.4.6.2	HRDS67.1: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.1.10	Channel 10	18.4.6.2	HRDS67.1: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.1.11	Channel 11	18.4.6.2	HRDS67.1: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
*HRDS6.2	Canada (IC)	18.4.6.2	HRDS67:O. 3	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.2.1	Channel 1	18.4.6.2	HRDS67.2: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>

Item	PHY Feature	References	Status	Support
HRDS6.2.2	Channel 2	18.4.6.2	HRDS 6 7.2: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.2.3	Channel 3	18.4.6.2	HRDS 6 7.2: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.2.4	Channel 4	18.4.6.2	HRDS 6 7.2: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.2.5	Channel 5	18.4.6.2	HRDS 6 7.2: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.2.6	Channel 6	18.4.6.2	HRDS 6 7.2: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.2.7	Channel 7	18.4.6.2	HRDS 6 7.2: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.2.8	Channel 8	18.4.6.2	HRDS 6 7.2: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.2.9	Channel 9	18.4.6.2	HRDS 6 7.2: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.2.10	Channel 10	18.4.6.2	HRDS 6 7.2: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.2.11	Channel 11	18.4.6.2	HRDS 6 7.2: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
*HRDS6.3	Europe (ETSI)	18.4.6.2	HRDS 6 7.O. 3	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.3.1	Channel 1	18.4.6.2	HRDS 6 7.3: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.3.2	Channel 2	18.4.6.2	HRDS 6 7.3: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.3.3	Channel 3	18.4.6.2	HRDS 6 7.3: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.3.4	Channel 4	18.4.6.2	HRDS 6 7.3: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.3.5	Channel 5	18.4.6.2	HRDS 6 7.3: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.3.6	Channel 6	18.4.6.2	HRDS 6 7.3: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.3.7	Channel 7	18.4.6.2	HRDS 6 7.3: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.3.8	Channel 8	18.4.6.2	HRDS 6 7.3: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>

Item	PHY Feature	References	Status	Support
HRDS6.3.9	Channel 9	18.4.6.2	HRDS6.7.3: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.3.10	Channel 10	18.4.6.2	HRDS6.7.3: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.3.11	Channel 11	18.4.6.2	HRDS6.7.3: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.3.12	Channel 12	18.4.6.2	HRDS6.7.3: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.3.13	Channel 13	18.4.6.2	HRDS6.7.3: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
*HRDS6.4	France	18.4.6.2	HRDS6.7.O. 3	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.4.1	Channel 10	18.4.6.2	HRDS6.7.4: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.4.2	Channel 11	18.4.6.2	HRDS6.7.4: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.4.3	Channel 12	18.4.6.2	HRDS6.7.4: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.4.4	Channel 13	18.4.6.2	HRDS6.7.4: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
*HRDS6.5	Spain	18.4.6.2	HRDS6.7.O. 3	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.5.1	Channel 10	18.4.6.2	HRDS6.7.5: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS6.5.2	Channel 11	18.4.6.2	HRDS6.7.5: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
*HRDS6.6	Japan (Rcr)	18.4.6.2	HRDS6.7.O. 3	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<u>HRDS6.6.1</u>	<u>Channel 1</u>	<u>18.4.6.2</u>	<u>HRDS6.6:M</u>	<u>Yes <input type="checkbox"/> No <input type="checkbox"/></u> <u>N/A <input type="checkbox"/></u>
<u>HRDS6.6.2</u>	<u>Channel 2</u>	<u>18.4.6.2</u>	<u>HRDS6.6:M</u>	<u>Yes <input type="checkbox"/> No <input type="checkbox"/></u> <u>N/A <input type="checkbox"/></u>
<u>HRDS6.6.3</u>	<u>Channel 3</u>	<u>18.4.6.2</u>	<u>HRDS6.6:M</u>	<u>Yes <input type="checkbox"/> No <input type="checkbox"/></u> <u>N/A <input type="checkbox"/></u>
<u>HRDS6.6.4</u>	<u>Channel 4</u>	<u>18.4.6.2</u>	<u>HRDS6.6:M</u>	<u>Yes <input type="checkbox"/> No <input type="checkbox"/></u> <u>N/A <input type="checkbox"/></u>
<u>HRDS6.6.5</u>	<u>Channel 5</u>	<u>18.4.6.2</u>	<u>HRDS6.6:M</u>	<u>Yes <input type="checkbox"/> No <input type="checkbox"/></u> <u>N/A <input type="checkbox"/></u>

Item	PHY Feature	References	Status	Support
<u>HRDS6.6.6</u>	<u>Channel 6</u>	<u>18.4.6.2</u>	<u>HRDS6.6:M</u>	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<u>HRDS6.6.7</u>	<u>Channel 7</u>	<u>18.4.6.2</u>	<u>HRDS6.6:M</u>	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<u>HRDS6.6.8</u>	<u>Channel 8</u>	<u>18.4.6.2</u>	<u>HRDS6.6:M</u>	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<u>HRDS6.6.9</u>	<u>Channel 9</u>	<u>18.4.6.2</u>	<u>HRDS6.6:M</u>	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<u>HRDS6.6.10</u>	<u>Channel 10</u>	<u>18.4.6.2</u>	<u>HRDS6.6:M</u>	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<u>HRDS6.6.11</u>	<u>Channel 11</u>	<u>18.4.6.2</u>	<u>HRDS6.6:M</u>	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<u>HRDS6.6.12</u>	<u>Channel 12</u>	<u>18.4.6.2</u>	<u>HRDS6.6:M</u>	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<u>HRDS6.6.13</u>	<u>Channel 13</u>	<u>18.4.6.2</u>	<u>HRDS6.6:M</u>	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<u>HRDS6.6.14</u>	<u>Channel 14</u>	<u>18.4.6.2</u>	<u>HRDS6.6:M</u>	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS7	Hop sequences		HRDS2:M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS8	CCK bits to symbol mapping			
HRDS8.1	5.5 Mbit/s	18.4.6.5	M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS8.2	11Mbit/s	18.4.6.5	M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS9	PBCC bits to symbol mappings	18.4.6.6	O	
HRDS9.1	5.5 Mbit/s	18.4.6.6	HRDS9+0:M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS9.2	11 Mbit/s	18.4.6.6	HRDS9+0:M	Yes <input type="checkbox"/> No <input type="checkbox"/>
*HRDS10	CCA functionality	18.4.8.4		
HRDS10.1	CCA Mode 1, energy only (RSSI above threshold)	18.4.8.4	HRDS10+0: O.4	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS10.2	CCA Mode 4, carrier sense with timer	18.4.8.4	HRDS10+0: O.4	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS10.3	CCA Mode 5, energy detect with High Rate CS	18.4.8.4	HRDS10+0: O.4	Yes <input type="checkbox"/> No <input type="checkbox"/>

Item	PHY Feature	References	Status	Support
HRDS10.4	Hold CCA busy for packet duration of a correctly received PLCP, but carrier lost during reception of MPDU.	18.2.6	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS10.5	Hold CCA busy for packet duration of a correctly received, but out of spec PLCP.	18.2.6	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS11	Transmit antenna selection	18.4.5.8	O	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS12	Receive antenna diversity	18.4.5.8, 18.4.5.9	O	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS13	Antenna port(s) availability		O	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS13.1	If available (50 % impedance)	18.4.6.8	HRDS13+4: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
*HRDS14	Transmit power level support	18.4.5.9, 18.4.7.2	O	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS14.1	If greater than 100 mW capability	18.4.7.2	HRDS14+5: M	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
*HRDS15	Radio type (temperature range)	18.4.6.14		
HRDS15.1	Type 1	18.4.6.14	HRDS15+6: O.5	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS15.2	Type 2	18.4.6.14	HRDS15+6: O.5	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
HRDS16	Spurious emissions conformance	18.4.6.8	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS17	TX-to-RX turnaround time	18.4.6.9	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS18	RX-to-TX turnaround time	18.4.6.10	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS19	Slot time	18.4.6.11	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS20	ED reporting time	18.4.6.10, 18.4.8.4	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS21	Minimum transmit power level	18.4.7.2	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS22	Transmit spectral mask conformance	18.4.7.3	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS23	Transmitted center frequency tolerance	18.4.7.4	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS24	Chip clock frequency tolerance	18.4.7.5	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS25	Transmit power on ramp	18.4.7.6	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS26	Transmit power down ramp	18.4.6.6	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS27	RF carrier suppression	18.4.7.7	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS28	Transmit modulation accuracy	18.4.7.8	M	Yes <input type="checkbox"/> No <input type="checkbox"/>

Item	PHY Feature	References	Status	Support
HRDS29	Receiver minimum input level sensitivity	18.4.8.1	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS30	Receiver maximum input level	18.4.8.2	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS31	Receiver adjacent channel rejection	18.4.8.3	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS32	Management information base	13.1, 18.3.2, Annex C	M	Yes <input type="checkbox"/> No <input type="checkbox"/>
HRDS32.1	PHY object class	13.1, 18.3.3	M	Yes <input type="checkbox"/> No <input type="checkbox"/>

Annex D

(normative)

ASN.1 encoding of the MAC and PHY MIB

In “Major sections” of Annex D, insert the following text to the end of “PHY Attributes” section:

```
-- dot11PhyHRDSSSTable ::= { dot11phy 12 }
```

Insert the following into the 802.11 MIB in Annex D, between the section entitled: “conformance information” and the section entitled: “End of dot11SupportedDataRatesRx TABLE”:

```
-- *****
```

```
-- * dot11PhyHRDSSSEntry TABLE
```

```
-- *****
```

```
dot11PhyHRDSSSTable OBJECT-TYPE
```

```
SYNTAX SEQUENCE OF Dot11PhyHRDSSSEntry
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

```
    "Entry of attributes for dot11PhyHRDSSSEntry. Implemented as a  
    table indexed on ifIndex to allow for multiple instances on  
    an Agent."
```

```
 ::= { dot11phy 12 }
```

```
dot11PhyHRDSSSEntry OBJECT-TYPE
```

```
SYNTAX Dot11PhyHRDSSSEntry
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

```
    "An entry in the dot11PhyHRDSSSEntry Table.  
    ifIndex - Each 802.11 interface is represented by an  
    ifEntry. Interface tables in this MIB module are indexed  
    by ifIndex."
```

```
INDEX {ifIndex}
```

```
 ::= { dot11PhyHRDSSSTable 1 }
```

```
Dot11PhyHRDSSSEntry ::= SEQUENCE {
```

```
    dot11ShortPreambleOptionImplemented TruthValue,
```

```
    dot11PBCCOptionImplemented TruthValue,
```

```
    dot11ChannelAgilityPresent TruthValue,
```

```
    dot11ChannelAgilityEnabled TruthValue,
```

```
    dot11HRCCAModeSupported INTEGER }
```

Change the MIB text as shown:

```
dot11ShortPreambleOptionImplemented OBJECT-TYPE
```

```
SYNTAX TruthValueINTEGER (true(1) false(2))
```

```

MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "This attribute, when true, shall indicate that the short preamble
    option as defined in subclause 18.2.2.2 is implemented. The default
    value of this attribute shall be false."
 ::= { dot11PhyHRDSSSEntry 16 }

dot11PBCCOptionImplemented OBJECT-TYPE
SYNTAX TruthValueINTEGER (true(1) false(2))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "This attribute, when true, shall indicate that the PBCC modulation
    option as defined in subclause 18.4.6.6 is implemented. The default
    value of this attribute shall be false."
 ::= { dot11PhyHRDSSSEntry 27 }

```

Delete the text as shown:

```

dot11PhyOperationEntry := SEQUENCE {
    dot11PhyOperationGroupTableIndex Integer32,
    dot11PHYType INTEGER,
    dot11CurrentRegDomain Integer32,
    dot11CCATime Integer32,
    dot11MACProcessingDelay Integer32,
    dot11TempType INTEGER,
    dot11PhyOperationGroupRowStatus RowStatus,
dot11ChannelAgilityPresent Boolean,
dot11ChannelAgilityEnabled Boolean}

```

Change the MIB text as shown:

```

dot11ChannelAgilityPresent OBJECT-TYPE
SYNTAX TruthValueBoolean
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "This attribute indicates that the PHY is capable of channel agili-
    ty."
 ::= { dot11PhyHRDSSSEntry 3dot11PhyOperationEntry 8 }

dot11ChannelAgilityEnabled OBJECT-TYPE
SYNTAX TruthValueBoolean
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "This attribute indicates that the PHY channel agility functionality
    is enabled."
 ::= { dot11PhyOperationEntry 9dot11PhyHRDSSSEntry 4 }

```

Insert the following text after dot11PhyHRDSSSEntry 4:

```
dot11HRCCAModeSupported OBJECT-TYPE
    SYNTAX INTEGER (1..31)
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "dot11HRCCAModeSupported is a bit-significant value, representing
    all of
        the CCA modes supported by the PHY. Valid values are:
            energy detect only (ED ONLY) = 01,
            carrier sense only (CS ONLY) = 02,
            carrier sense and energy detect (ED and CS)= 04
            carrier sense with timer (CS and Timer)= 08
            high rate carrier sense and energy detect (HRCS and ED)= 16
        or the logical sum of any of these values. In the high rate extension
        PHY, this attribute shall be used in preference to the
        dot11CCAModeSupported attribute."
 ::= { dot11PhyHRDSSSEntry 5 }
```

```
-- *****
-- * End of dot11PhyHRDSSSEntry TABLE
-- *****
```

Add a new compliance group to the compliance statements just before the section:“OPTIONAL-GROUPS”:

```
GROUP dot11PhyHRDSSSComplianceGroup
    DESCRIPTION
        "Implementation of this group is required when object
        dot11PHYType has the value of hrdsss. This group is
        mutually exclusive with the groups dot11PhyDSSSComplianceGroup,
        dot11PhyIRComplianceGroup and dot11PhyFHSSComplianceGroup."
```

Change the MIB text as shown:

```
dot11CCAModeSupported OBJECT-TYPE
    SYNTAX INTEGER (1..3116)
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "dot11CCAModeSupported is a bit-significant value, representing all
    of
        the CCA modes supported by the PHY. Valid values are:
            energy detect only (ED_ONLY) = 01,
            carrier sense only (CS_ONLY) = 02,
            carrier sense and energy detect (ED_and_CS)= 04
            carrier sense with timer (CS_and_Timer)= 08
            high rate carrier sense and energy detect (HRCS_and_ED)= 16
        or the arithmetic sum of any of these values. This attribute shall
```

not be used to indicate the CCA modes supported by a higher rate extension PHY. Rather, the dot11HRCCAModeSupported attribute shall be used to indicate the CCA modes of the higher rate extension PHY."

```
::= { dot11PhyDSSSEntry 2 }
```

dot11CurrentCCAMode OBJECT-TYPE

```
SYNTAX INTEGER {edonly(1), csonly(2), edandcs(4), cswithtimer(8),  
hrcsanded(16) }
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The current CCA method in operation. Valid values are:

energy detect only (edonly) = 01,

carrier sense only (csonly) = 02,

carrier sense and energy detect (edandcs)= 04.

carrier sense with timer (cswithtimer)= 08

high rate carrier sense and energy detect (hrcsanded)= 16"

```
::= { dot11PhyDSSSEntry 3 }
```

Change the following attribute definition (as it was previously modified by 802.11a):

dot11PHYType OBJECT-TYPE

```
SYNTAX INTEGER {fhss(1), dsss(2), irbaseband(3), ofdm(4), hrdsss(5)}
```

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is an 8-bit integer value that identifies the PHY type supported by the attached PLCP and PMD. Currently defined values and their corresponding PHY types are:

FHSS 2.4 GHz = 01 , DSSS 2.4 GHz = 02, IR Baseband = 03,

OFDM 5GHz = 04, HRDSSS = 05 "

```
::= { dot11PhyOperationEntry 1 }
```

Insert the following text into the 802.11 MIB in Annex D, after the definition of the SMTBase2 Object Group:

dot11PhyHRDSSSComplianceGroup OBJECT-GROUP

OBJECTS {dot11CurrentChannel,

dot11CCAModeSupported,

dot11CurrentCCAMode,

dot11EDThreshold,

dot11ShortPreambleOptionImplemented,

dot11PBCCOptionImplemented,

dot11ChannelAgilityPresent,

dot11ChannelAgilityEnabled,

dot11HRCCAModeSupported }

STATUS current

DESCRIPTION

"Attributes that configure the HRDSSS PHY for IEEE 802.11."

```
::= { dot11Groups 19 }
```