IEEE P802.11
Wireless LANs

TGy Draft 3.0 redline tables

Date: 2007-06-08

Author(s):

Name	Affiliation	Address	Phone	email
Peter Ecclesine	Cisco Systems	170 W. Tasman Dr., San Jose, CA 95134-1706	+1-408-527-0815	petere@cisco.com

Abstract

Draft P802.11y D3.0 redline tables

CONTENTS

2. References 21

3. Definitions 21

4. Abbreviations and acronyms 2

7. Frame formats 3

7.2 Format of individual frame types 3
7.2.3 Management frames 3
7.2.3.1 Beacon frame format 3
7.2.3.24 Association Request frame format 3
7.2.3.35 Association Response frame format 3
7.2.3.46 Reassociation Request frame format 34
7.2.3.57 Reassociation Response frame format 4
7.2.3.68 Probe Request frame format 4
7.2.3.79 Probe Response frame format 45
7.3 Management frame body components 5
7.3.2 Information elements 5
7.3.2.4921DSE registered location Measurement Request element 65
7.3.2.5021.11Extended Channel Switch Announcement elementDSE request76
7.3.2.5122Supported Regulatory Classes Measurement Report element 86
7.3.2.22.11DSE report 7
7.3.2.49 DSE registered location element 9
7.3.2.50 Extended Channel Switch Announcement element 10
7.3.2.51 Supported Regulatory Classes element 11
7.4 Action frame format details 811
7.4.1 Spectrum management action details 811
7.4.1.16 Measurement Request Extended Channel Switch Announcement frame format811
7.4.1.67 Extended Channel Switch DSE Registered Location Announcement frame format912

9. MAC sublayer functional description 13

9.8 Operation across regulatory domains 13
79.48.1.73DSE Registered Location Announcement frame formatOperation with Regulatory Classes913
9.8.4 MAC sublayer functional descriptionOperation with Coverage Classes 1013

910.8 ..... Operation across regulatory domainsLayer management1014

9.810.3Operation with Regulatory ClassesMLME SAP Interface 1014
910.83.42Operation with Coverage ClassesScan 1014
10.3.2.2 MLME-SCAN.confirm 14
10.3.2.2.2Semantics of the service primitive 14
10.3.6 Layer managementAssociate 1114
10.3.6.1 MLME SAP InterfaceMLME-ASSOCIATE.request 1114
10.3.6.1.2ScanSemantics of the service primitive 1114
10.3.6.2 ScanMLME-ASSOCIATE.confirm 1114
10.3.6.2.2MLME-SCAN.confirmSemantics of the service primitive 1114
10.3.6.3 AssociateMLME-ASSOCIATE.indication 1115
10.3.6.13.2MLME-ASSOCIATE.requestSemantics of the service primitive1115

10.3.6.24 MLME-ASSOCIATE.confirmresponse 1216
10.3.6.34.2MLME-ASSOCIATE.indicationSemantics of the service primitive1216
10.3.6.47MLME-ASSOCIATE.responseReassociate 1317
10.3.7.1 ReassociateMLME-REASSOCIATE.request 1417
10.3.7.1.2MLME-REASSOCIATE.requestSemantics of the service primitive1417
10.3.7.2 MLME-REASSOCIATE.confirm 1517
10.3.7.32.2MLME-REASSOCIATE.indicationSemantics of the service primitive1517
10.3.7.43 MLME-REASSOCIATE.responseindication 1618
10.3.7.3.2Semantics of the service primitive 18
10.3.7.4 MLME-REASSOCIATE.response 18
10.3.7.4.2Semantics of the service primitive 18
10.3.10Start 19
10.3.10.1 MLME-START.request 19
10.3.10.1.2Semantics of the service primitive 19
10.3.36Extended Channel Switch Announcement 20
10.3.36.1 MLME-EXTCHANNELSWITCH.request 20
10.3.1036.1.1StartFunction 1720
10.3.1036.1.2MLME-START.requestSemantics of the service primitive 1720
10.3.36.1.3Extended Channel Switch AnnouncementWhen generated 1820
10.3.36.1.4MLME-EXTCHANNELSWITCH.requestEffect of receipt 1820
10.3.36.2 MLME-EXTCHANNELSWITCH.confirm 1921
10.3.36.32.1MLME-EXTCHANNELSWITCH.indicationFunction 2021
10.3.36.42.2MLME-EXTCHANNELSWITCH.responseSemantics of the service primitive 21
10.3.36.2.3When generated 21
10.3.36.2.4Effect of receipt 22
10.3.36.3 MLME-EXTCHANNELSWITCH.indication 22
10.3.36.3.1Function 22
10.3.36.3.2Semantics of the service primitive 22
10.3.36.3.3When generated 22
10.3.36.3.4Effect of receipt 22
10.3.36.4 MLME-EXTCHANNELSWITCH.response 23
10.3.36.4.1Function 23
10.3.36.4.2Semantics of the service primitive 23
10.3.36.4.3When generated 23
10.3.36.4.4Effect of receipt 23

11. MLME 2224

11.9 DFS procedures 2224
11.9.7 Selecting and advertising a new channel 2224
11.9.7.1 Selecting and advertising a new channel in an infrastructure BSS 2224
11.9.7.2 Selecting and advertising a new channel in an IBSS 2224
11.9.7.3 Advertising supported regulatory classes 2325
11.14DSE procedures 2325
11.14.1Fixed station and enabling AP operation 2426
11.14.2Creation of a DSE service area for dependent station operation 2426
11.14.3Dependent STA operation with DSE 2426

17. Orthogonal frequency division multiplexing (OFDM) PHY specification for the 5 GHz band 2629

17.1 Introduction 26
17.1.1 Scope 26
17.1.2 OFDM PHY functions 26

17.1.2.2 PMD sublayer 26
17.31OFDM PLCP sublayerIntroduction 2729
17.31.61CCAScope 2729
17.31.82PMD operating specification (general)OFDM PHY functions 2729
17.31.82.32Operating channel frequenciesPMD sublayer 2729
17.3.9PMD transmit specificationsOFDM PLCP sublayer 2729
17.3.9.26Transmit spectrum maskCCA 2729
17.3.108PMD receiver specificationsoperating specification (general) 2930
17.3.108.53CCA sensitivityOperating channel frequencies 2930
17.3.128.3.1Receive PLCPOperating frequency range 30
17.4 OFDM PLME 31
17.53.9OFDM PMD sublayertransmit specifications 3130
17.53.9.42Basic service and optionsTransmit spectrum mask 3130
17.53.4.110PMD_SAP sublayer-to-sublayer service primitivesPMD receiver specifications3132
17.53.410.25PMD_SAP service primitive parametersCCA sensitivity 32
17.53.512PMD_SAP detailed service specificationReceive PLCP 32
17.5.5.94PMD_CS.indicateOFDM PLME 3233
17.54.5.101PMD_ED.indicatePLME_SAP sublayer management primitives 33
17.5.5.11 PMD_ED.request 33
Annex A 3534

A.4 PICS proforma—IEEE Std. 802.11, 2007 edition 3534
A.4.3 IUT configuration 3534
A.4.8 OFDM PHY functions 3534
A.4.10 Regulatory Domain ExtentionsExtensions 3635
A.4.1312Regulatory classes extentionsSpectrum management extensions 3735
A.4.1713DSE functionsRegulatory classes extensions 3736
A.4.17 DSE functions 37
Annex D 3839

Annex I 5450

I.1 External regulatory references 5450
I.2.3 Transmit spectrum mask 5652
I.2.4 CCA-ED Threshold 5652
Annex J 5653

J.1 Country information and regulatory classes 5653
J.2 Dependent station operation in licensed bands 5854

FIGURES

Figure y112z79m—Measurement Request field format for a DSE registered location element formatrequest6
Figure 85p—Measurement Report field format for a DSE report 7
Figure 85q—DSE LCI element format 8
Figure 112z—DSE registered location element format 9
Figure y112aa112aa—Extended Channel Switch Announcement -element format 710
Figure y112ab112ab—Supported Regulatory Classes element format 811
Figure y117a117a—Extended Channel Switch Announcement frame body format. 912
Figure y117b117b—DSE Registered Location Announcement frame body format 912
Figure y204a204a—Dependent STA state machine 2527
Figure y254a254a—Transmit spectrum mask for 20 MHz transmission 2831

Figure ~~y254b~~254b—Transmit spectrum mask for 10 MHz transmission ~~29~~31
Figure ~~y254c~~254c—Transmit spectrum mask for 5 MHz transmission ~~29~~32
~~Figure 264—Receive PLCP~~ ~~30~~

TABLES

Table 8—Beacon frame body 3
Table 10—Association Request frame format 3
Table 11—Association Response frame format 3
Table 12—Reassociation Request frame format 4
Table 13—Reassociation Response frame body 4
Table 14—Probe Request frame format 4
Table 15—Probe Response frame body ~~4~~5
Table 26—Element IDs 5
6
Table 29—Measurement Type definitions for measurement requests 6
Table 30—Measurement Type definitions for measurement reports 7
Table 44—Spectrum management Action Value field values ~~9~~11
~~11~~14
~~12~~15
~~12~~15
~~13~~16
~~14~~16
~~15~~17
~~15~~18
~~16~~18
~~17~~19
~~18~~20
~~18~~21
~~19~~21
~~20~~22
~~21~~23
Table 146—MIB attribute default values/ranges ~~31~~33
~~Table 149—PMD_SAP sublayer-to-sublayer service primitives~~ ~~31~~
~~Table 150—List of parameters for the PMD primitives~~ ~~32~~
~~Table y150a—PMD_CS.indicate parameter~~ ~~32~~
~~Table y150b—PMD_ED.indicate parameter~~ ~~33~~
~~Table y150c—PMD_ED.request parameter~~ ~~34~~
~~35~~
~~35~~
~~36~~
~~36~~
~~36~~
~~36~~
~~37~~
~~37~~
~~37~~
Table I.1—Regulatory requirement list 50
Table I.2—Emissions limits sets 50
Table I.33—Behavior limits sets 50
Table I.4—Transmit power level by regulatory domain 51
Table J.1—Regulatory classes in the USA 53