IEEE P802.11
Wireless LANs

|  |
| --- |
| IEEE P802.11bi/D2.0 Mandatory Draft Review (MDR) Report |
| Date: 2025-09-17 |
| Author(s): |
| Name | Company | Address | Phone | email |
| Edward Au | Huawei |  |  | edward.ks.au@gmail.com  |
| Carol Ansley | Cox |  |  | carol@ansley.com |
| Po-Kai Huang | Intel |  |  | po-kai.huang@intel.com  |
| Robert Stacey | Intel |  |  | robert.stacey@intel.com  |
| Joseph Levy | InterDigital |  |  | Joseph.Levy@interdigital.com  |
| Ankur Bansal | Samsung |  |  | Ankb.mail+ieee@gmail.com  |
| Jay Yang | ZTE |  |  | yang.zhijie@zte.com.cn  |
| Volker Jungnickel | Fraunhofer |  |  | volker.jungnickel@hhi.fraunhofer.de  |
| Preston Hunt | Intel |  |  | me@prestonhunt.com  |
| Mark Hamilton | Ruckus/CommScope |  |  | mark.hamilton2152@gmail.com  |

**Abstract**

This document contains the report of the IEEE P802.11bi/D2.1 Mandatory Draft Review.

r0: initial version

r1: reviewer assignment completed

r2: findings (except MIB) from Edward are included; change D2.0 to D2.1.

# Introduction

## Purpose of this document

This document is the report from the group of volunteers that participated in the P802.11bi/D2.1 mandatory draft review (MDR).

This document contains recommendations for changes to the P802.11bi draft to bring it into improved compliance to both the IEEE SA Standards Style Manual and the IEEE 802.11 Style Guide style.

The recommended changes need to be reviewed by TGbi and approved, or ownership of the issues taken by TGbi.

## Process / references

The MDR process is described in:

* [11/0615](https://mentor.ieee.org/802.11/documents?is_dcn=615&is_year=2011) – WG802.11 Mandatory Draft Review Process

And references:

* IEEE SA Standards Style Manual ([Latest version: 2021](https://mentor.ieee.org/myproject/Public/mytools/draft/styleman.pdf))
* [09/1034](https://mentor.ieee.org/802.11/documents?is_dcn=1034&is_year=2009) – 802.11 Editorial Style Guide

A setup meeting may be held with and review topics assigned to volunteers. The review comments from the volunteers will be compiled into this document.

## Acknowledgements

The IEEE 802.11 technical editor gratefully acknowledges the work and contribution of the participants listed in the authors list.

# Findings

## Style

### Style Gude 2.1 – Frames

#### Style Guide 2.1.1 – Frame Format Figures

#### Assignee: Joe Levy

#### Style Guide 2.1.2 – Naming Frames

Assignee: Joe Levy

### Style Guide 2.2 – true/false

Assignee: Ankur Bansal

### Style Guide 2.3 – “is set to”

Assignee: Joe Levy

### Style Guide 2.4 – Information Elements/Subelements

#### Style Guide 2.4.1 – Information Elements/subelements – Naming

Assignee: Jay Yang

#### Style Guide 2.4.2 – Definition Conventions

Assignee: Volker Jungnickel

#### Style Guide 2.4.3 – Element Inclusion Conventions

Assignee: Jay Yang

### Style Guide 2.5 – Removal of functions and features

Assignee: Carol Ansley

### Style Guide 2.6 – Capitalization

Assignee: Carol Ansley

### Style Guide 2.7 – Terminology: frame vs packet vs PPDU vs MPDU

Assignee: Preston Hunt

### Style Guide 2.8 – Use of verbs & problematic words

#### normative, non-normative, ensure

Assignee: Edward Au

1. P32.8: Is the verb “will” necessary here? As per our Editor’s style guide, “will” can be used when stating future fact, and using any other tense dilutes the intended meaning. This case should be rare.
2. P55.25: Is the verb “only” necessary here? As per our Editor’s style guide, “Only” is a constraint, which should apply to a condition, not to a verb

#### Style Guide 2.8.1 – which/that

Assignee: Joe Levy

#### Style Guide 2.8.2 – articles

Assignee: Robert Stacey

#### Style Guide 2.8.3 – missing nouns

Assignee: Robert Stacey

#### Style Guide 2.8.4 – unnecessary nouns

Assignee: Robert Stacey

#### Style Guide 2.8.5 – unicast and multicast

Not applicable.

### Style Guide 2.9 – Numbers

Assignee: Edward Au

1. P58.38: replace “-“ with endash.
2. P59.49: replace “-“ with endash.
3. P60.23: replace “-“ with endash.
4. P61.34: please italicize “N”.
5. P79.25: replace “-“ with endash.
6. P82.41: replace “-“ with endash.
7. P83.27: replace “-“ with endash.
8. P84.22: replace “-“ with endash.
9. P85.18: replace “-“ with endash.
10. P86.41: replace “-“ with endash.
11. P87.57: replace “-“ with endash.
12. P101.40: please italicize “n”.
13. P113.48: replace “-“ with endash for the minus sign.
14. P148.14: replace “-“ with endash.

### Style Guide 2.10 – Maths operators and relations

Assignee: Edward Au

1. P103.46: replace “*c*+*q*” with “*c* + *q*”.
2. P103.47: replace “*c*+ *q*+ 1” with “*c* + *q* + 1”.
3. P104.19: please add a space after the equality sign.
4. P104.19: please un-italicize “KDF”.
5. P117.18: please add a space after “for SNS11”.
6. P167.13: please remove the space before “XXKey”.
7. P167.24: please activate the cross reference of 12.7.1.6.3.

### Style Guide 2.11 – Hyphenation

Assignee: Edward Au

1. P31.31: For sake of consistency with REVmf, please replace “third-party” with “third party”.
2. P114.7: Suggest to replace “non-anonymized” with “nonanonymized”.
3. P114.9: Suggest to replace “non-anonymized” with “nonanonymized”.
4. P114.11: Suggest to replace “non-anonymized” with “nonanonymized”. Two instances.
5. P114.19: Suggest to replace “non-anonymized” with “nonanonymized”.
6. P114.21: Suggest to replace “non-anonymized” with “nonanonymized”. Two instances.
7. P160.21: Replace “NOTE 2” with “NOTE 1”.
8. P162.33: Replace “NOTE 1” with “NOTE 2”.
9. P173.33: Replace “NOTE 1” with “NOTE”.
10. P174.13: Replace “NOTE 1” with “NOTE”.
11. P174.57: Replace “NOTE 1” with “NOTE”.

### Style Guide 2.12 – References to SAP primitives

Assignee: Mark Hamilton

### Style Guide 2.13 – References to the contents of a field/subfield

Assignee: Jay Yang

### Style Guide 2.18 – Deprecation of subfield

Assignee: Jay Yang

### Style Guide 2.14 – MIB attributes

Assignee: Mark Hamilton

### Style Guide 2.15 – Hanging Paragraphs

Assignee: Edward Au

1. P119.20 to P119.50: There are 6 hanging paragraphs (including 2 NOTEs) between 10.71.8 and 10.71.8.1.
2. P155.29 to P155.32: There is a hanging paragraph between 12.16.4 and 12.16.4.1.
3. P159.20 to P159.25: There are 2 hanging paragraphs between 12.16.6 and 12.16.6.1.
4. P166.11 to P166.16: There are 2 hanging paragraphs between 12.16.7 and 12.16.7.1.
5. P167.46 to P167.49: There is a hanging paragraph between 12.16.8 and 12.16.8.1.

### Style Guide 2.16 – Abbreviations

Assignee: Volker Jungnickel

### Style Guide 2.17 – Format for code/pseudocode

Not applicable.

### Style guide 3 – Style applicable to specific Clauses

#### Definitions (Clause 3)

Assignee: Robert Stacey

#### General Description (Clause 4)

Assignee: Preston Hunt

#### Frame formats (Clause 9) – shall or may?

Assignee: Volker Jungnickel

#### SAP interfaces (Clause 6)

Assignee: Mark Hamilton

#### New top level clauses

Not applicable.

#### Annex A – Bibliography

Not applicable.

#### Annex B – PICS

Assignee: Edward Au

1. P183.42: Prepend "\*" to EPPM2.2 as it is cross-referenced by FR77.14.
2. P184.4: Prepend "\*" to EPPM3 as it is cross-referenced by a few PICS items.
3. P184.56: Prepend "\*" to EPPM9.1 as it is cross-referenced by a few PICS items.
4. P185.46: Prepend "\*" to EPPM9.7 as it is cross-referenced by a few PICS items.

#### Annex G – Frame exchange sequences

Not applicable.

## ANA

Assignee: Carol Ansley

Check for correct use of numbers against database.

Check names against database (update database if names have changed).

|  |  |  |  |
| --- | --- | --- | --- |
| **Resource** | **Ref** | **Value** | **Status** |
|  |  |  |  |

Additional Actions:

## MIB

Assignee: Edward Au

The compiled MIB is embedded as the following.

[Embed MIB after compilation]

### Detailed proposed changes

# Collateral findings

# IEEE-SA MEC

|  |
| --- |
|  |