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5 GHz WAS/RLAN - Harmonizirani standard za dostop do radijskega spektra

5 GHz WAS/RLAN - Harmonised Standard for access to radio spectrum

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Harmonised Standard for access to radio spectrum**

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Contents

Intellectual Property Rights	10
Foreword.....	10
Modal verbs terminology.....	11
Introduction	11
1 Scope	12
2 References	12
2.1 Normative references	12
2.2 Informative references.....	13
3 Definition of terms, symbols and abbreviations.....	14
3.1 Terms.....	14
3.2 Symbols.....	16
3.3 Abbreviations	17
4 Technical requirements for equipment operating in sub-band 1, sub-band 2 or sub-band 3.....	18
4.1 Environmental profile.....	18
4.2 Conformance requirements	18
4.2.1 Nominal centre frequency.....	18
4.2.1.1 General	18
4.2.1.2 Definition	18
4.2.1.3 Limits	19
4.2.1.4 Conformance.....	19
4.2.2 Nominal channel bandwidth and occupied bandwidth	19
4.2.2.1 Definition	19
4.2.2.2 Limits	19
4.2.2.3 Conformance.....	19
4.2.3 RF output power, Transmit Power Control (TPC) and Power Spectral Density (PSD).....	20
4.2.3.1 Definition	20
4.2.3.1.1 RF output power	20
4.2.3.1.2 Transmit Power Control (TPC)	20
4.2.3.1.3 Power Spectral Density (PSD)	20
4.2.3.2 Limits	20
4.2.3.2.1 General requirements.....	20
4.2.3.2.2 Limits for RF output power and PSD.....	20
4.2.3.3 Conformance.....	21
4.2.4 Transmitter unwanted emissions.....	21
4.2.4.1 Transmitter unwanted emissions outside the transmitter's operating bands.....	21
4.2.4.1.1 Definition.....	21
4.2.4.1.2 Limits	21
4.2.4.1.3 Conformance	21
4.2.4.2 Transmitter unwanted emissions within the transmitter's operating bands	21
4.2.4.2.1 Definition.....	21
4.2.4.2.2 Limits	22
4.2.4.2.3 Conformance	24
4.2.5 Receiver spurious emissions	24
4.2.5.1 Definition	24
4.2.5.2 Limits	24
4.2.5.3 Conformance.....	25
4.2.6 Dynamic Frequency Selection (DFS)	25
4.2.6.1 DFS general requirements.....	25
4.2.6.1.1 DFS function	25
4.2.6.1.2 DFS applicable frequency range.....	25
4.2.6.1.3 DFS operational modes	25
4.2.6.1.4 DFS operation.....	25
4.2.6.2 DFS technical requirements	27
4.2.6.2.1 Applicability.....	27

4.2.6.2.2	Channel Availability Check (CAC).....	27
4.2.6.2.3	Off-channel CAC.....	28
4.2.6.2.4	In-service monitoring	28
4.2.6.2.5	Channel shutdown	28
4.2.6.2.6	Non-occupancy period.....	29
4.2.6.2.7	Uniform spreading.....	29
4.2.7	Adaptivity (channel access mechanism).....	30
4.2.7.1	Applicability.....	30
4.2.7.2	Definition	30
4.2.7.3	Limits	30
4.2.7.3.1	Frame Based Equipment (FBE).....	30
4.2.7.3.2	Load Based Equipment (LBE)	33
4.2.7.3.3	Short Control Signalling (SCS) transmissions (FBE and LBE)	38
4.2.7.4	Conformance.....	38
4.2.8	Receiver blocking	38
4.2.8.1	Applicability.....	38
4.2.8.2	Definition	38
4.2.8.3	Performance criteria	39
4.2.8.4	Limits	39
4.2.8.5	Conformance.....	39
4.2.9	Adjacent channel selectivity	39
4.2.9.1	Applicability.....	39
4.2.9.2	Definition	39
4.2.9.3	Performance criteria	39
4.2.9.4	Limits	39
4.2.9.5	Conformance.....	40
4.2.10	User Access Restrictions (UAR)	40
4.2.10.1	Definition	40
4.2.10.2	Requirements	40
4.2.10.3	Conformance.....	40
5	Testing for compliance with technical requirements.....	41
5.1	Environmental conditions for testing	41
5.1.1	General conditions	41
5.1.2	Normal test conditions	41
5.1.2.1	Normal temperature and humidity	41
5.1.2.2	Normal power source	41
5.1.3	Extreme test conditions.....	41
5.2	Interpretation of the measurement results	41
5.3	Definition of other test conditions.....	42
5.3.1	Test sequences and traffic load.....	42
5.3.1.1	General test transmission sequences	42
5.3.1.2	Test transmission sequences for DFS tests.....	42
5.3.2	Test channels	42
5.3.3	Antennas	43
5.3.3.1	Integrated and dedicated antennas.....	43
5.3.3.2	Transmit operating modes.....	44
5.3.3.2.1	Operating mode 1 (single antenna).....	44
5.3.3.2.2	Operating mode 2 (multiple antennas, no beamforming)	44
5.3.3.2.3	Operating mode 3 (multiple antennas, with beamforming)	44
5.3.4	Presentation of equipment	44
5.3.5	Measurement methods	44
5.4	Essential radio test suites.....	45
5.4.1	Product information	45
5.4.2	Nominal centre frequency.....	47
5.4.2.1	Test conditions	47
5.4.2.2	Test methods	48
5.4.2.2.1	Conducted measurement.....	48
5.4.2.2.2	Radiated measurement.....	48
5.4.2.2.3	Test fixture measurement	48
5.4.3	Occupied bandwidth	48
5.4.3.1	Test conditions	48

5.4.3.2	Test methods	49
5.4.3.2.1	Conducted measurement.....	49
5.4.3.2.2	Radiated measurement.....	49
5.4.3.2.3	Test fixture measurement	49
5.4.4	RF output power, Transmit Power Control (TPC) and Power Spectral Density (PSD).....	50
5.4.4.1	Test conditions	50
5.4.4.2	Test methods	50
5.4.4.2.1	Conducted measurement.....	50
5.4.4.2.2	Radiated measurement.....	59
5.4.4.2.3	Test fixture measurement	59
5.4.5	Transmitter unwanted emissions outside the transmitter's operating bands.....	59
5.4.5.1	Test conditions	59
5.4.5.2	Test methods	60
5.4.5.2.1	Conducted measurement.....	60
5.4.5.2.2	Radiated measurement.....	62
5.4.5.2.3	Test fixture measurement	62
5.4.6	Transmitter unwanted emissions within the transmitter's operating bands.....	62
5.4.6.1	Test conditions	62
5.4.6.2	Test methods	62
5.4.6.2.1	Conducted measurement.....	62
5.4.6.2.2	Radiated measurement.....	64
5.4.6.2.3	Test fixture measurement	64
5.4.7	Receiver spurious emissions	64
5.4.7.1	Test conditions	64
5.4.7.2	Test methods	65
5.4.7.2.1	Conducted measurement.....	65
5.4.7.2.2	Radiated measurement.....	67
5.4.7.2.3	Test fixture measurement	67
5.4.8	Dynamic Frequency Selection (DFS).....	67
5.4.8.1	Test conditions	67
5.4.8.1.1	General test conditions	67
5.4.8.1.2	Selection of radar test signals	67
5.4.8.1.3	Test setups	68
5.4.8.2	Test methods	69
5.4.8.2.1	Conducted measurement.....	69
5.4.8.2.2	Radiated measurement.....	76
5.4.8.2.3	Test fixture measurement	76
5.4.9	Adaptivity (channel access mechanism).....	77
5.4.9.1	Test conditions	77
5.4.9.2	Test methods for Frame Based Equipment (FBE)	77
5.4.9.2.1	Additional test conditions	77
5.4.9.2.2	Conducted measurements	77
5.4.9.2.3	Generic test procedure for measuring channel/frequency usage	81
5.4.9.2.4	Radiated measurements	82
5.4.9.2.5	Test fixture measurement	82
5.4.9.3	Test methods for Load Based Equipment (LBE).....	82
5.4.9.3.1	Additional test conditions	82
5.4.9.3.2	Conducted measurements	82
5.4.9.3.3	Generic test procedure for measuring channel/frequency usage	90
5.4.9.3.4	Radiated measurements	91
5.4.9.3.5	Test fixture measurement	91
5.4.10	Receiver blocking	91
5.4.10.1	Test conditions	91
5.4.10.2	Test methods	91
5.4.10.2.1	Conducted measurements	91
5.4.10.2.2	Radiated measurements	93
5.4.10.2.3	Test fixture measurement	93
5.4.11	Adjacent channel selectivity	93
5.4.11.1	Test conditions	93
5.4.11.2	Test methods	93
5.4.11.2.1	Conducted measurements	93
5.4.11.2.2	Radiated measurements	95

5.4.11.2.3	Test fixture measurement	95
5.4.12	User Access Restrictions (UAR)	95
5.4.12.1	Introduction	95
5.4.12.2	Assessment conditions	95
5.4.12.3	Assessment procedure	95
Annex A (informative):	Relationship between the present document and the essential requirements of Directive 2014/53/EU	96
Annex B (normative):	Equipment operating within the band 5 725 MHz to 5 850 MHz (sub-band 4)	99
B.1	Scope	99
B.2	Technical requirements for equipment operating in sub-band 4	99
B.2.1	Environmental profile	99
B.2.2	Conformance requirements	99
B.2.2.1	Nominal centre frequency	99
B.2.2.1.1	General	99
B.2.2.1.2	Definition	99
B.2.2.1.3	Limits	99
B.2.2.1.4	Conformance	100
B.2.2.2	Nominal channel bandwidth and occupied bandwidth	100
B.2.2.2.1	Definition	100
B.2.2.2.2	Limits	100
B.2.2.2.3	Conformance	100
B.2.2.3	RF output power, Transmit Power Control (TPC) and Power Spectral Density (PSD)	100
B.2.2.3.1	Definition	100
B.2.2.3.2	Limits	100
B.2.2.3.2.1	General requirements	100
B.2.2.3.2.2	Limits for RF output power and PSD	101
B.2.2.3.3	Conformance	101
B.2.2.4	Transmitter unwanted emissions	101
B.2.2.4.1	Transmitter unwanted emissions outside the transmitter's operating bands	101
B.2.2.4.1.1	Definition	101
B.2.2.4.1.2	Limits	101
B.2.2.4.1.3	Conformance	101
B.2.2.4.2	Transmitter unwanted emissions within the transmitter's operating bands	101
B.2.2.4.2.1	Definition	101
B.2.2.4.2.2	Limits	101
B.2.2.4.2.3	Conformance	101
B.2.2.5	Receiver spurious emissions	101
B.2.2.5.1	Definition	101
B.2.2.5.2	Limits	102
B.2.2.5.3	Conformance	102
B.2.2.6	Void	102
B.2.2.7	Adaptivity (channel access mechanism)	102
B.2.2.7.1	Applicability	102
B.2.2.7.2	Definition	102
B.2.2.7.3	Limits	102
B.2.2.7.3.1	Frame Based Equipment (FBE)	102
B.2.2.7.3.2	Load Based Equipment (LBE)	103
B.2.2.7.3.3	Short Control Signalling (SCS) transmissions (FBE and LBE)	104
B.2.2.7.4	Conformance	104
B.2.2.8	Receiver blocking	104
B.2.2.8.1	Applicability	104
B.2.2.8.2	Definition	104
B.2.2.8.3	Performance criteria	104
B.2.2.8.4	Limits	105
B.2.2.8.5	Conformance	105
B.2.2.9	Adjacent channel selectivity	105
B.2.2.9.1	Applicability	105

B.2.2.9.2	Definition	105
B.2.2.9.3	Performance criteria	105
B.2.2.9.4	Limits	105
B.2.2.9.5	Conformance.....	105
B.2.2.10	User Access Restrictions (UAR)	105
B.2.2.10.1	Definition	105
B.2.2.10.2	Requirements	105
B.2.2.10.3	Conformance.....	105
B.2.2.11	Country determination capability	106
B.2.2.11.1	Definition	106
B.2.2.11.2	Applicability.....	106
B.2.2.11.3	Requirements	106
B.2.2.11.4	Conformance.....	106
B.3	Testing for compliance with technical requirements.....	106
B.3.1	Environmental conditions for testing	106
B.3.2	Interpretation of the measurement results	106
B.3.3	Definition of other test conditions.....	106
B.3.3.1	Test sequences and traffic load.....	106
B.3.3.2	Test channels	107
B.3.3.3	Antennas	107
B.3.3.4	Presentation of equipment	108
B.3.3.5	Measurement methods	108
B.3.4	Essential radio test suites.....	108
B.3.4.1	Product information	108
B.3.4.2	Nominal centre frequency.....	109
B.3.4.3	Occupied bandwidth	109
B.3.4.4	RF output power, Transmit Power Control (TPC) and Power Spectral Density (PSD).....	109
B.3.4.4.1	Test conditions	109
B.3.4.4.2	Test methods	110
B.3.4.4.2.1	Conducted measurement.....	110
B.3.4.4.2.2	Radiated measurement.....	114
B.3.4.4.2.3	Test fixture measurement	115
B.3.4.5	Transmitter unwanted emissions outside the transmitter's operating bands.....	115
B.3.4.6	Transmitter unwanted emissions within the transmitter's operating bands.....	115
B.3.4.7	Receiver spurious emissions	115
B.3.4.8	Void	115
B.3.4.9	Adaptivity (channel access mechanism).....	115
B.3.4.10	Receiver blocking	115
B.3.4.11	Adjacent channel selectivity	115
B.3.4.12	User Access Restrictions (UAR)	116
B.3.4.13	Country determination capability	116
B.3.4.13.1	Test conditions	116
B.3.4.13.2	Test method.....	116
Annex C (informative):	Maximum measurement uncertainties	118
Annex D (normative):	DFS parameters	119
Annex E (normative):	Test sites and arrangements for radiated measurements.....	122
E.1	Introduction	122
E.2	Radiated test sites	122
E.2.1	Open Area Test Site (OATS)	122
E.2.2	Semi Anechoic Room (SAR)	123
E.2.3	Fully Anechoic Room (FAR).....	124
E.2.4	Measurement distance	125
E.3	Antennas.....	126
E.3.1	Introduction	126
E.3.2	Measurement antenna.....	126
E.3.3	Substitution antenna	126

E.4	Test fixture	126
E.4.1	Introduction	126
E.4.2	Description of the test fixture	127
E.4.3	Using the test fixture for relative measurements at the lower and upper extreme temperatures	127
E.4.4	Using the test fixture for normalized measurements	127
E.4.5	Using the test fixture for level independent measurements	128
E.5	Arrangement of the radiated test sites	128
E.5.1	Introduction	128
E.5.2	Power supplies for the battery powered UUT	128
E.5.3	Site preparation	128
E.6	Coupling of signals.....	129
E.6.1	General	129
E.6.2	Data signals	129
E.7	Interference signals used for adaptivity tests.....	129
E.7.1	Additive White Gaussian Noise (AWGN) test signal	129
E.7.2	OFDM test signal based on IEEE 802.11 PHY.....	129
E.7.3	OFDM test signal based on LTE PHY	129
E.7.4	Interference signal characteristics	129
E.7.4.1	Verification of flatness and bandwidth	129
E.7.4.2	Measurement of PSD	130
E.7.5	Waveforms for test signals	131
Annex F (normative): Procedures for radiated measurements		132
F.1	Introduction	132
F.2	Radiated measurements in an OATS or SAR.....	132
F.3	Radiated measurements in a FAR	133
F.4	Substitution measurement	133
F.5	Testing technical requirements on equipment with an integral antenna	133
F.5.1	Radio test suites and corresponding test sites.....	133
F.5.2	Testing adaptivity (channel access mechanism).....	134
F.5.2.1	Introduction.....	134
F.5.2.2	Measurement setup	134
F.5.2.3	Calibration of the measurement setup.....	134
F.5.2.4	Test method	135
F.5.3	Testing receiver blocking	135
F.5.3.1	Introduction.....	135
F.5.3.2	Measurement setup	135
F.5.3.3	Calibration of the measurement setup.....	135
F.5.3.4	Test method	136
F.5.4	Testing adjacent channel selectivity	136
F.5.4.1	Introduction.....	136
F.5.4.2	Measurement setup	136
F.5.4.3	Calibration of the measurement setup.....	137
F.5.4.4	Test method	137
Annex G (informative): Adaptivity flowchart.....		138
Annex H (informative): Application form for testing.....		139
H.1	The right to copy	139
H.2	Introduction	139
H.3	Information as required by ETSI EN 301 893 (V2.2.1), clause 5.4.1	139
H.4	Additional information provided by the manufacturer.....	150
H.4.1	Modulation	150
H.4.2	Duty cycle	150

H.4.3	About the UUT.....	150
H.4.4	List of ancillary and/or support equipment provided by the manufacturer.....	151
Annex I (informative): Examples of spectrum masks.....		152
I.1	Introduction.....	152
I.2	Equipment configured for multi-channel operation in groups of four adjacent channels.....	152
I.2.1	Example 1.....	152
I.2.2	Example 2.....	152
I.2.3	Example 3.....	153
I.2.4	Example 4.....	154
I.3	Equipment configured for multi-channel operation in groups of eight adjacent channels.....	154
I.3.1	Example 5.....	154
I.3.2	Example 6.....	155
I.3.3	Example 7.....	155
I.3.4	Example 8.....	156
I.3.5	Example 9.....	156
Annex J (informative): Bibliography.....		158
Annex K (informative): Change history.....		159
History.....		160

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Foreword

This final draft Harmonised European Standard (EN) has been produced by ETSI Technical Committee Broadband Radio Access Networks (BRAN), and is now submitted for the Vote phase of the ETSI Standardisation Request deliverable Approval Procedure.

The present document has been prepared under the Commission's standardisation request C(2015) 5376 final [i.2] to provide one voluntary means of conforming to the essential requirements of Directive 2014/53/EU on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC [i.1].

Once the present document is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of the present document given in table A.1 confers, within the limits of the scope of the present document, a presumption of conformity with the corresponding essential requirements of that Directive and associated EFTA regulations.

Proposed national transposition dates	
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Introduction

5 GHz Wireless Access Systems (WAS) including RLAN equipment are used in wireless local area networks which provide high speed data communications in between devices connected to the wireless infrastructure. The present document also addresses ad-hoc networking where devices communicate directly with each other, without the use of a wireless infrastructure.

The spectrum usage conditions for equipment within the scope of the present document are set out as follows:

- ECC Decision (04)08 [i.6], Commission Implementing Decision (EU) 2022/179 [i.7] amended by Commission Implementing Decision (EU) 2022/2307 [i.8] for sub-band 1, sub-band 2 and sub-band 3 as shown in table 1.
- The operation in sub-band 4 as shown in table B.1 is subject to national frequency usage conditions. Hence, it should be verified whether national frequency usage conditions permit operations in this sub-band in accordance with the present document.

NOTE: An example for national frequency usage conditions is given in UK Interface Requirements IR 2030 [i.12].

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1 Scope

The present document specifies technical characteristics and methods of measurement for Wireless Access Systems (WAS) including Radio Local Area Network (RLAN) equipment operating in the 5 GHz RLAN band.

The present document specifies spectrum access requirements to facilitate spectrum sharing with other equipment.

Radio equipment capable of operating in all or parts of the service frequency bands given in table 1 is within the scope of the present document.

Table 1: Service frequency bands

	Sub-band 1	Sub-band 2	Sub-band 3
Transmit	5 150 MHz to 5 250 MHz	5 250 MHz to 5 350 MHz	5 470 MHz to 5 725 MHz
Receive	5 150 MHz to 5 250 MHz	5 250 MHz to 5 350 MHz	5 470 MHz to 5 725 MHz

Provisions for radio equipment capable of operating in all or parts of the 5 725 MHz to 5 850 MHz frequency band (sub-band 4 as given in table B.1) are contained in annex B. However, operation in sub-band 4 is subject to national frequency usage conditions. The present document also contains provisions for equipment operating on channels whose nominal channel bandwidth falls partly in sub-band 3 and partly in sub-band 4.

NOTE 1: The technical requirements for equipment operating in the service frequency bands identified in table 1 are contained in the main part of the present document (see clause 4) while the technical requirements for equipment operating in the service frequency band identified in table B.1 are contained in annex B.

NOTE 2: The relationship between the present document and essential requirements of article 3.2 of Directive 2014/53/EU [i.1] is given in annex A.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <https://docbox.etsi.org/Reference/>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are necessary for the application of the present document.

- [1] [ETSI TS 136 141 \(V18.4.0\) \(05-2024\)](#): "LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing (3GPP TS 36.141 version 18.4.0 Release 18)".
- [2] [ISO/IEC/IEEE 8802-11:2022](#): "Telecommunications and information exchange between systems - Specific requirements for local and metropolitan area networks - Part 11: Wireless LAN medium access control (MAC) and physical layer (PHY) specifications".