IEEE 802.11 Draft MAC PICS Proforma

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Advanced Micro Devices

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Support for MAC Functions

Item	Protocol Feature	References	Status	Value	Support
1*	Is implementation an Access Point?		0		Yes 🗆 No 🗅
2 *	Is implementation a Station ?		0		Yes 🗆 No 🖵
3*	Is STA able to become a Point		0		Yes 🗆 No 🗆
	Coordinator ?				
4 *	Is STA CF-Aware ?		0		Yes 🗆 No 🗅
5*	Does STA support WEP ?		lo		Yes 🗆 No 🖵
6*	Does AP support wireless DS?		C1:0		Yes 🗆 No 🖵
7*	Does implementation have a Frequency		0		Yes 🗆 No 🖬
,	Hopping Physical Layer?		l °		
	Tropping Thysical Dayort				
4.1	Implementation complies with frame				
	format conventions ?				
4.1.1	Implementation complies with octet	4.1.1	М		Yes 🗅
1.1.1	ordering convention ?		1		
4.1.2	Implementation complies with reserved	4.1.1	М		Yes 🗆
T+1,4	field convention ?				
4.2	Frame field formats and values correct?	4.1.3	M		Yes 🗅
4.2.1	Frame control field correct ?	4.1.3.1	M		Yes 🗆
4.2.2	Protocol version field correct ?	4.1.3.1.1	M	0	Yes 🖵
4.2.3	Type and Subtype fields correct ?	4.1.3.1.2	M		Yes 🖵
4.2.4	ToDS field correct ?	4.1.3.1.3	M		Yes 🖵
4.2.5	FromDS field correct ?	4.1.3.1.4	M		Yes 🗆
4.2.6	More Fragment field correct ?	4.1.3.1.5	M		Yes 🗆
4.2.7	Retry field correct ?	4.1.3.1.6	M		Yes 🗆
4.2.8	Power management field correct ?	4.1.3.1.7	M		Yes 🗆
4.2.9	More Data field correct ?	4.1.3.1.8	M		Yes 🗆
4.2.10	WEP field correct ?	4.1.3.2	M		Yes 🗆
4.2.11	Duration/ID field correct ?	4.1.3.3	M		Yes 🖵
4.2.12	Is Address representation correct in all	4.1.3.4.1	M		Yes 🖵
7.2.12	transmitted frames?	1.1.5.1.1			
4.2.13	Is Address designation correct ?	4.1.3.4.2	М		Yes 🗆
4.2.13	Is the BSSID the correct format in frames	4.1.3.4.3	M		Yes 🗆
7.2.17	where it occurs?	4.1.5.4.5			100 -
4.2.14.1	In an infrastructure BSS is BSSID the	4.1.3.4.3	М		Yes 🗆
4.2.14.1	MAC address of the STA in the AP?	4.1.3.4.3	141		
4.2.14.2	In an IBSS, is the BSSID the locally	4.1.3.4.3	C2:M		Yes 🗆 N/A 🗅
4.2.14.2	administered individual IEEE MAC	4.1.3.4.3	C2.1VI		
	address generated by the STA that created				
	the IBSS ?				
4.2.14.3	Is the broadcast BSSID limited to	4.1.3.4.3	C2:M		Yes 🗆 N/A 🗅
4.2.14.3	Management frames of Subtype PROBE?	4.1.3.4.3	C2.1VI		
1 2 15	Is the source address the individual	4.1.3.4.5	М		Yes 🗅
4.2.15	address of the implementation under test?	+.1.3.4.3			
4.2.16	Is the sequence control field format	4.1.3.5	М		Yes 🖵
4.2.10	correct?	-1.3.3	1 4VI		
4.2.16.1	Are MSDUs numbered correctly?	4.1.3.5.1	М		Yes 🗆
4.2.16.1	Are fragments numbered correctly?	4.1.3.5.2	M		Yes 🗆
		4.1.3.6	M		Yes 🗆
4.2.17	Does implementation limit frames to less	4.1.5.0	1111		
	that or equal to the maximum frame body				
4 0 10	length?	4.1.3.7	М		Yes 🗅
4.2.18	Is the CRC field calculated correctly?	4.1.3./	1 1/1	1	1 1 62 0

Submission

4.2	E	14.0		r	
4.3	Frame formats correct ?	4.2	M		Yes 🗆
4.3.1	Are RTS frames correctly formatted ?	4.2.1.1	M		Yes 🗆
4.3.1.1	Are the RTS frame control field, address	4.2.1	M		Yes 🗅
4.2.0	and duration fields correct ?	4.2.1.1			
4.3.2	Are CTS frames correctly formatted ?	4.2.1.2	M		Yes 🗆
4.3.2.1	Are the CTS frame control field, address	4.2.1	M		Yes 🗅
4.2.2	and duration fields correct ?	4.2.1.2			
4.3.3 4.3.3.1	Are ACK frames correctly formatted ?	4.2.1.3	M		Yes 🗆
4.3.3.1	Are the ACK frame control field, address	4.2.1	M		Yes 🖵
4.3.4	and duration fields correct ?	4.2.1.3	0114		
4.3.4.1	Are PS-Poll frames correctly formated ?	4.2.1.4	C1:M		Yes N/A
4.3.4.1	Are the PS-Poll frame control field, address and SID fields correct		C1:M	Č	Yes 🗆 N/A 🗅
4.3.5	Are CF-End frames correctly formated ?	4.2.1.4 4.2.1.5	C(1 8-2).M		Yes 🗆 N/A 🗆
4.3.5.1	Are the CF-End frame control field,	4.2.1.5	C(1&3):M		
4.5.5.1	duration and address fields correct ?	4.2.1	C(1&3):: M		Yes 🗆 N/A 🗅
4.3.6	Are Data frames correctly formatted ?	4.2.1.5	M		Yes 🗆
4.3.6.1	Are Addresses assigned correctly in Data	4.2.2	M		Yes
4.5.0.1	frames?	4.2.2	101		
4.3.6.2	Is the Address 1 field used to perform	4.2.2	M		Yes 🗆
4.5.0.2	address matching for receive decisions?	4.2.2	141		
4.3.6.3	Is Address 4 field used exclusively for	4.2.2	C6:M		Yes 🗆 N/A 🗅
4.5.0.5	wireless DS ?	4.2.2	C0.1VI		
4.3.6.4	Is frame body formatted correctly ?	4.2.2	М		Yes 🗅
4.3.6.5	Are the correct Data subtypes used	4.2.2	M		Yes 🗆
4.5.0.5	exclusively during contention period?	4.2.2	141		
4.3.6.6	Are the correct Data subtypes used in a	4.2.2	C(1&3):M		Yes 🗆 N/A 🗅
4.5.0.0	PCF implementaion?	4.2.2	$C(1\alpha S).WI$		I ES UN/A U
4.3.6.7	Are the correct Data subtypes used in a	4.2.2	C4:M		Yes 🗆 N/A 🗅
4.5.0.7	CF-Aware implementation	+.2.2	C4.1VI		I CS GIN/A G
4.3.6.8	Is duration field set correctly in Data	4.2.2	М		Yes 🖵
115.010	frames ?	T.2.2	IVI		105 🖬
4.3.7	Are management frames correctly	4.2.3	М		Yes 🖵
11017	formatted ?	1.2.5	141		103 🖬
4.3.7.1	Are Addresses assigned correctly in	4.2.3	м		Yes 🗆
	Management frames?	1.2.5	111		103 🖬
4.3.7.2	Is duration field set correctly in	4.2.3	М		Yes 🗆
	Management frames ?	1.2.0			105 -
4.3.7.3	Is the Beacon management frame format	4.2.3.1	м		Yes 🖵
	correct ?				105
4.3.7.3.1	Is the FH Paramenter set element present	4.2.3.1	C7:M		Yes 🗆 N/A 🗅
	in Beacon frames ?				100 = 1011 =
4.3.7.3.2	Are the values of the fixed fields and	4.3.2.1	М		Yes 🗆
	elements within the Beacon frame correct				
	with respect to MIB variable settings for				
	the implementation?				
4.3.7.3.3	Is the CF Paramenter set element present	4.2.3.1	C(1&3):M		Yes 🗆 N/A 🗅
	in Beacon frames ?				
4.3.7.3.4	Is the IBSS Paramenter set element	4.2.3.1	М		Yes 🗆
	present in Beacon frames when the STA				_
	is operating within an IBSS?		1 1		
4.3.7.4	Is the ATIM management frame format	4.2.3.2	C2:M		Yes 🗆 N/A 🗅
	correct ?				
4.3.7.5	Is the Disassociation management frame	4.2.3.3	M		Yes 🗆
	format correct ?				

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4.3.7.6	Is the Association Request management frame format correct ?	4.2.3.4	C2:M	Yes 🗆 N/A 🗅
4.3.7.7	Is the Association Response management frame format correct ?	4.2.3.5	C1:M	Yes 🗆 N/A 🗅
4.3.7.8	Is the Reassociation Request management frame format correct ?	4.2.3.6	C2:M	Yes 🗆 N/A 🗅
4.3.7.9	Is the Reassociation Response management frame format correct ?	4.2.3.7	C1:M	Yes 🗆 N/A 🖵
4.3.7.10	Is the Probe Request management frame format correct ?	4.2.3.9	C2:M	Yes 🗆 N/A 🗆
4.3.7.11	Is the Probe Response management frame format correct ?	4.2.3.10	М	Yes 🕻
4.3.7.12	Is the Authentication management frame format correct ?	4.2.3.11	М	Yes 🖵
4.3.7.13	Is the Deauthentiaction management frame format correct ?	4.2.3.12	C2:M	Yes 🗆 N/A 🗅
4.3.8	Are fixed management frame body	4.2.3	M	Yes 🖵
	components used correctly ?	4.3		
4.3.8.1	Is the Authentication Algorithm Number used correctly in the relevant frames ?	4.2.3.11 4.3.1.1	М	Yes 🗖
4.3.8.2	Is the Authentication Transaction Sequence Number used correctly in the relevant frames ?	4.2.3.11 4.3.1.2	М	Yes 🖵
4.3.8.3	Does the Beacon Interval appear correctly in the frames ?	4.3.1.3	М	Yes 🗖
4.3.8.4	Does the Capability Information appear correctly in the relevant frames?	4.3.1.4	М	Yes 🗅
4.3.8.5	Does the Current AP Address appear correctly in the relevant frames?	4.3.1.5	М	Yes 🖵
4.3.8.6	Does the Listen Interval appear correctly in the relevant frames?	4.3.1.6	M	Yes 🗖
4.3.8.7	Is the the Station ID assigned correctly in the relevant frames?	4.3.1.8	М	Yes 🛛
4.3.8.8	Does the Timestamp appear correctly in the relevant frames?	4.3.1.10		Yes 🖬
4.3.9	Are element management frame body components formatted correctly ?	4.3.2	М	Yes 🖬
4.3.9.1	Does implementation use defined element IDs correctly?		М	Yes 🗅
4.3.9.2	Is the element length field used correctly?	4.3.2	M	Yes 🖬
4.3.10	Is the TIM element formatted and used correctly ?	4.3.2	M	Yes 🗖
4.3.10.1	Is the DTIM count decremented correctly?	4.3.2.1	М	Yes 🗖
4.3.10.2	Does the DTIM period appear correctly ?	4.3.2.1	C1:M	Yes 🗆 N/A 🖵
4.3.10.3	Is the bitmap control field coded correctly?	4.3.2.1	C1:M	Yes 🗅 N/A 🗅
4.3.10.4	Is the partial virtual bitmap coded correctly?	4.3.2.1	C1:M	Yes 🗅 N/A 🗅
4.3.10.5	Does the implementation correctly interpret the partial virtual bitmap ?	4.3.2.1	C2:M	Yes 🗆 N/A 🗅
4.3.10	Is the ESSID element formatted correctly and equivalent to the appropriate MIB variable ?	4.3.2.1	M	Yes 🗆

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4.3.11	Is the FH parameter set element formatted and used correctly ?	4.3.2.2	C7:M	Yes 🗆 N/A 🖵
4.3.11.1	Are the dwell time, hop set and hop	4.3.2.2	C7:M	Yes 🗆 N/A 🗅
	pattern parameters equivalent to the	-1.5.2.2	07.101	
	appropriate MIB variables ?			
4.3.12	Is the supported rates element formatted	4.3.2.3	M	Yes 🗆
	and used correctly ?			
4.3.13	Is the CF parameter set element formatted	4.3.2.4	C(1&3):M	Yes 🗆 N/A 🗅
	and used correctly ?			
4.3.13.1	Are the CFP_Rate, CFP_Max_Duration	4.3.2.4	C(1&3):M	Yes 🗆 N/A 🗆
	parameters equivalent to the appropriate			
4.3.13.2	MIB variables ?			
4.3.13.2	Is the CFP_Dur_Remaining parameter	4.3.2.4	C(1&3):M	Yes 🗅 N/A 🗅
4.3.14	decremented correctly ? Is the IBSS parameter set element	4.3.2.6	M	N D
4.3.14	formatted and used correctly ?	4.3.2.0	IMI	Yes 🗖
4.3.14.1	Is the ATIM Window paramter equivalent	4.3.2.6	м	Yes 🗖
	to the appropriate MIB variable ?	1.5.2.0		
	Stewart we as whether			
5.1	Does the station implement Open System	5.1.1	M	Yes 🗅
	Authentication?			
5.1.1	Are the contents of Open System	5.1.1.1	M	Yes 🖵
	Authentication request frames correct?			
5.1.2	Does the station respond to an Open	5.1.1	M	Yes 🖵
	System Authentication request frame with			
	an Open System Authentication response			
5.1.3	frame?	5110		
5.1.5	Are the contents of Open System Authentication response frames correct?	5.1.1.2	M	Yes 🖵
5.1.4	Is the result of an Open System	5.1.1	м	Yes 🖵
5.1.4	Authentication response "successful" if	5.1.1	IVI	r es 🖵
	and only if the system generating the		1 1	
	response is not currently using a different			
	authentication algorithm?		1 1	
5.1.5	Is a station that receives a "successful"	5.1.1	M	Yes 🖵
	rseponse to an Open System			
	Authentication exchange authenticated			
	with the station that sent the response?			
5.2	Does the station implement Shared Key	5.1.2	C5:M	Yes 🗆 N/A 🗅
5.2.1	Authentication?	5101		
J.2.1	Are the contents of Shared Key Authentication request frames correct, and	5.1.2.1	C5:M	Yes 🗆 N/A 🗅
	are these frames sent with WEP off?			
5.2.2	Does the station respond to a Shared Key	5.1.2	C5:M	Yes 🗆 N/A 🗅
	Authentication request frame with a	5.1.2		
	Shared Key Authentication challenge text			
	frame?			
5.2.3	Are the contents of Shared Key	5.1.2.2	C5:M	Yes 🗆 N/A 🗆
	Authentication challenge text frames		<	
	correct, and are these frames sent with			
504	WEP off?			
5.2.4	Does the station respond to a Shared Key	5.1.2.3	C5:M	Yes 🗆 N/A 🗅
	Authentication challenge text frame with a Shared Key Authentication encrypted			
Į į	onarea Key Authentication encrypted		1 1	

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5.2.5 Are the contents of Shared Key Authentication encrypted challenge text frames correct, and are these frames sent with WEP on? 5.1.2.3 C5.M Yes □ N/A □ 5.2.6 Does the station respont to a Shared Key Authentication encrypted challenge text frame with a Shared Key Authentication encrypted challenge text frame with a Shared Key Authentication response frames ornet, and are these sent with WEP off? 5.1.2.4 C5:M Yes □ N/A □ 5.2.7 Are the contents of Shared Key Authentication response frames correct, and are these sent with WEP off? 5.1.2.4 C5:M Yes □ N/A □ 5.2.8 Is the result of a Shared Key Authentication exchange "successful" if an only if the decrypted challenge text? 5.1.2.4 C5:M Yes □ N/A □ 5.2.9 Is a station that receives a "successful" if an only if the decrypted challenge text? 5.1.2.4 C5:M Yes □ N/A □ 5.3 Does each MPDU that is sent with WEP on expanded? S.1.2.4 C5:M Yes □ N/A □ 5.3.1 When using the WEP Algorithm, does each expanded MPDU that is sent with WEP on include a correctly-computed 32 bit ICV field immediately following the MPDU data? 5.2.5 C5:M Yes □ N/A □ 5.4.1 Bot the station use MAC MIB variables MPDU fata? S.3.2 C5:M Yes □ N/A □ 5.4.2 Does the station use MAC MIB variables MPDU fata? S.3.2<	ı	aballance taxt frame?	r i	1 1	1
Authentication encrypted challenge text frames correct, and are these frames sent with WEP on? 5.1.2.4 C5:M Yes □ N/A □ 5.2.6 Does the station respond to a Shared Key Authentication encrypted challenge text frame with a Shared Key Authentication response text frame? 5.1.2.4 C5:M Yes □ N/A □ 5.2.7 Are the contents of Shared Key Authentication exchange with WEP off? 5.1.2.4 C5:M Yes □ N/A □ 5.2.8 Is the result of a Shared Key Authentication exchange with WEP off? 5.1.2.4 C5:M Yes □ N/A □ 5.2.9 Is a station that receives a "successful" if and only if the decrypted challenge text? 5.1.2.4 C5:M Yes □ N/A □ 5.3 Does each MPDU that is sent with WEP on expanded? 5.2.5 C5:M Yes □ N/A □ 5.3.1 When using the WEP Algorithm, does each expanded MPDU that is sent with WEP on include a correcity-constructed 32 bit ICV field immediately preceding the MPDU data? 5.2.5 C5:M Yes □ N/A □ 5.4 Does each MAC MIB variables set and used correcity for each expanded MPDU that is sent with WEP on include a correcity for each expanded MPDU that is sent with WEP on include a correcity for each expanded MPDU that is sent with WEP on include a correcity for each expanded MPDU that is sent with WEP on include a correcity for each expanded MPDU that is sent with WEP on include a correcity for each expanded MPDU that is sent with WEP on include a correcity for each expan	5.2.5	challenge text frame?	5122	C5·M	
frames correct, and are these frames sent with WEP on? 5.1.2.4 C5:M Yes □ N/A □ 5.2.6 Does the station response text frame? 5.1.2.4 C5:M Yes □ N/A □ 5.2.7 Are the contents of Shared Key Authentication response text frame? 5.1.2.4 C5:M Yes □ N/A □ 5.2.8 Is the result of a Shared Key Authentication exchange "successful" if and only if the decrypted challenge text matches the original challenge text matches the original challenge text? 5.1.2.4 C5:M Yes □ N/A □ 5.2.9 Is a station that receives a "successful" response to a Shared Key Authentication exchange authenticated with the station text matches the original challenge text? 5.1.2.4 C5:M Yes □ N/A □ 5.3 Does each MPDU that is sent with WEP on expande? 5.1.2.4 C5:M Yes □ N/A □ 5.3.1 When using the WEP Algorithm, does each expanded MPDU that is sent with WEP on expande? 5.2.5 C5:M Yes □ N/A □ 5.3.2 When using the WEP Algorithm, does each expanded MPDU that is sent with WEP on expande? 5.2.5 C5:M Yes □ N/A □ 5.4 Does the station use MAC MIB variables the atom tuse accorrectly correctly 22 bit ICV field immediately preceding the MPDU ata? 5.3.2 C5:M Yes □ N/A □ 5.4.1 Does the station use MAC MIB variables	5.2.5		5.1.2.5	C3.WI	
with WEP on?5.2.6Does the station respond to a Shared Key Authentication encrypted challenge text frame with a Shared Key Authentication response text frame?5.1.2.4C5:MYes □ N/A □5.2.7Are the contents of Shared Key Authentication cexhange Successful" if and one yif the decrypted challenge text matches the original challenge text?5.1.2.4C5:MYes □ N/A □5.2.9Is the result of a Shared Key Authentication texchange Successful" if sechange authenticated with the station exchange authenticated with the station that sent the response?5.1.2.4C5:MYes □ N/A □5.3Does each MPDU that is sent with WEP on exchange authenticated with the station that sent the response?5.2.5C5:MYes □ N/A □5.3.1When using the WEP Algorithm, does each expanded MPDU that?5.2.5C5:MYes □ N/A □5.3.2When using the WEP Algorithm, does each expanded MPDU that?5.3.2C5:MYes □ N/A □5.4Does the station use MAC MIB variables set and used correctly for each expanded MPDU that?5.3.2C5:MYes □ N/A □5.4.1Is the aWEP_Default MAC MIB variable variable set and used correctly for eacrypting and decrypting MPDUs?5.3.2C5:MYes □ N/A □5.4.2Is the aXEP_Key_Mapping and aWEP_Key_Mapping MB Currently for encrypting and decrypting MPDUs?5.3.2C5:MYes □ N/A □5.4.3Are the aWEP_Key_Mapping and aWEP_Key_Mapping MB Currently for encrypting and decrypting MPDUs?5.3.2C5:MYes □ N/A □5.4.4Do the values in the aWEP_Key_Mapping MB Curre					
5.2.6 Does the station respond to a Shared Key Authentication encrypted challenge text frame with a Shared Key Authentication response text frame? 5.1.2.4 C5:M Yes □ N/A □ 5.2.7 Are the contents of Shared Key Authentication response frames correct, and and the decrypted challenge text matches the original challenge text matches the original challenge text response to a Shared Key Authentication exchange "successful" 5.1.2.4 C5:M Yes □ N/A □ 5.2.9 Is a station that receives a "successful" response to a Shared Key Authentication exchange authenticated with the station that sent the response? 5.1.2.4 C5:M Yes □ N/A □ 5.3 Does each MPDU that is sent with WEP on include a correctly constructed 32 bit IV field immediately preceding the MPDU that? 5.2.5 C5:M Yes □ N/A □ 5.3.2 When using the WEP Algorithm, does each expanded MPDU that is sent with WEP on include a correctly constructed 32 bit IV field immediately preceding the MPDU that? 5.2.5 C5:M Yes □ N/A □ 5.4 Does the station use MAC MIB variables set and used correctly for encrypting and decrypting MPDUs? 5.3.2 C5:M Yes □ N/A □ 5.4.3 Are the aWEP_Key_Mapping and arAuse best and used correctly for encrypting and decrypting MPDUs? 5.3.2 C5:M Yes □ N/A □ 5.4.4 Does the station refr					
Authentication enerypted challenge text frame with a Shared Key Authentication response text frame?Sinthe Construction frame only if the decrypted challenge text 	526		5124	C5·M	
frame with a Shared Key Authentication response text frame?5.1.2.4C5.MYes □ N/A □5.2.7Are the contents of Shared Key Authentication response frames correct, and are these sent with WEP off?5.1.2.4C5.MYes □ N/A □5.2.8Is the result of a Shared Key Authentication exchange "successful" if and only if the decrypted challenge text?5.1.2.4C5.MYes □ N/A □5.2.9Is a station that receives a "successful" response to a Shared Key Authentication exchange authenticated with the station that sent the response?5.1.2.4C5.MYes □ N/A □5.3Does each MPDU that is sent with WEP on expanded MPDU that is sent with WEP on include a correctly-constructed 32 bit IV field immediately preceding the MPDU data?5.2.5C5.MYes □ N/A □5.3.1When using the WEP Algorithm, does each expanded MPDU that is sent with WEP on include a correctly-constructed 32 bit IV field immediately preceding the MPDU data?5.2.5C5.MYes □ N/A □5.4Does the station use MAC MIB variables relating to WEP correctly?5.3.2C5.MYes □ N/A □5.4.1Is the aWEP_Default MAC MIB variables variable set and used correctly for decrypting MPDUs?5.3.2C5.MYes □ N/A □5.4.2Is the aLSclude_Unencrypted MAC MIB variable set and used correctly for decrypting MPDUs?5.3.2C5.MYes □ N/A □5.4.3Are the aWEP_Key_Mapping and aWEP_Key_Mapping MDUs?5.3.2C5.MYes □ N/A □5.4.4Does the station refrain from ever using a ber correctly of a decrypting and decrypting MPDUs?<	5.2.0		5.1.2.7	C3.IVI	reservice
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precedence over the aWEP_Default and aWE_Default_Key MAC MIB variables for encrypting and decrypting MPDUs? Image: Constraint of the second secon	J.4.4		5.5.2		
aWE_Default_Key MAC MIB variables for encrypting and decrypting MPDUs?Yes □ N/A □5.4.5Is the length of aWEP_Key_Mapping at least 10?5.3.2C5:MYes □ N/A □5.4.6Does the station refrain from ever using a box the station refrain from ever using a5.3.2C5:MYes □ N/A □	1				
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5.4.6Does the station refrain from ever using a5.3.2C5:MYes □ N/A □	5.4.5		5.3.2	C5:M	Yes 🗆 N/A 🗅
5.4.6 Does the station refrain from ever using a $5.3.2$ C5:M Yes \Box N/A \Box		· · · · ·			
	5.4.6	1	5.3.2	C5:M	Yes 🗆 N/A 🗅
	1.2012.002				

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6.1	Does Implementation use the virtual	6.2.1	M	Yes 🗅
	carrier sense mechanism correctly?			
6.2	ACK Frame protocol correct ?	6.2	M	Yes 🖵
6.2.1	Are ACK frames sent within a SIFS time?	6.2.8	M	Yes 🖵
6.2.2	Are ACK frames sent only if the received	6.2.2	M	Yes 🖵
	frame had a correct CRC and the	6.2.8		
	Address1 field of the frame contained the			
	implementation's MAC address?			
6.2.2	Are ACK frames not sent if the received	6.2.8	M	Yes 🖬
	frame is a multicast or broadcast frame?			
6.2.3	Does the ACK frame tranmitted contain	4.2.1.3	M	Yes 🖵
	the address contained in the Address2			
	field of the frame being acknowledged?			
6.3	Random Backoff correct ?	6.2	M	Yes 🖵
6.3.1	Is the first frame of a transmission	6.2.4	M	Yes 🗅
	sequence deffered if the medium is			
	detected busy?	1		
6.3.2	Does the implementation wait at least one	6.2.4	M	Yes 🖵
	DIFS time after the medium goes idle			
	before initiating a transmission sequence?			
6.3.3	Does the implementation follow the	6.2.5.2	M	Yes 🗆
	backoff procedure if the first attempt of			105 🖬
	the first frame of a transmission sequence			
	is deffered until the medium is idle?			
6.3.4	Is Random Backoff Time calculated	6.2.4	м	Yes 🗖
	correctly?	0.2.1	141	
6.3.5	Do retransmissions increase CW	6.2.4	м	Yes 🗅
	correctly?	0.2.4	141	
6.3.6	Are the correct values of CWmin and	6.2.4	м	Nes D
0.010	CWmax used?	0.2.4	111	Yes 🖵
6.3.7	Does the backoff time only start a DIFS	6.2.5.2	м	N D
0.011	period after the medium goes idle at the	6.2.6.2	101	Yes 🗅
	end of a received ACK or the end of a	0.2.0.2		
	ACK Timeout?			
6.3.8	Does the implementation monitor the	6.2.5.2		
0.5.0	medium for carrier activity durring	0.2.3.2	M	Yes 🗖
	healtoff alote and step the healtoff time?			
6.3.9	backoff slots and stop the backoff timer? Is the backoff time decremented	(
0.3.9		6.2.5.2	M	Yes 🗖
6.3.10	correctly?	() = 0		
0.5.10	Is the backoff time resumed only after the	6.2.5.2	M	Yes 🖵
6.3.11	media is detected idle for a DIFS time?			
0.5.11	Does the implementation start a deferred	6.2.5.2	M	Yes 🖵
	transmission when the backoff timer			
6 2 1 2	reaches zero?			
6.3.12	Is there a random backoff between	6.2.5.2	M	Yes 🖵
	successive non-burst transmissions from	6.2.5.5		
<u></u>	the implementation?			
6.4	RTS/CTS protocol correct ?	6.2	M	Yes 🖵
6.4.1	Is an RTS/CTS exchange used by the	6.2.6.1	M	Yes 🖵
	implementation for directed frames of			
	length greater than aRTS_Threshold?			
6.4.2	Is an RTS/CTS exchange not used by the	6.2.6.1	M	Yes 🖵
	implementation for directed frames of			
	length less than or equal to			

		1	т I	1
640	aRTS_Threshold?	607	Nr.	V. D
6.4.3	Is an RTS/CTS exchange not used by the	6.2.7	M	Yes 🗅
	implementation for broadcast and			
	multicast frames sent with the ToDS bit			
	clear?	60.00		X
6.4.4	Is an RTS/CTS exchange used by the	6.2.5.6	M	Yes 🗖
	implementation only for the first fragment			
	of an unbroken directed burst when the			
	length of the first fragment of the burst is			
6.4.5	greater than a RTS_Threshold?	6056	N I	Vec D
6.4.5	Is an RTS/CTS exchange used by the	6.2.5.6	M	Yes 🗅
	implementation only for the first fragment			
	of the remainder of burst that has been			
i	broken if the length of the fragment is			
	greater than the RTS_Threshold?	6050		
6.4.6	Do RTS retransmissions follow the	6.2.5.3	M	Yes 🗅
	backoff procedure?	60.50		
6.4.7	Does the implementation transmit at most	6.2.5.3	M	Yes 🖵
	aShort_Retry_Limit RTS retransmissions			
	before failing the DATA or Managmenet			
	transmission?			
6.4.8	Does the implementation transmit at most	6.2.5.3	M	Yes 🗖
	aShort_Retry_Max frame retransmissions			
	of a Data or Management frame of length			
	less than or equal aRTS_Threshold			
6.4.0	before failing the frame transmission?	6050		
6.4.9	Does the implementation transmit at most	6.2.5.3	M	Yes 🖵
	aLong_Retry_Max frame retransmissions			
	of a Data or Management frame of length			
	greater than aRTS_Threshold before			
	failing the frame transmission?			
6.5	NAV protocol correct	6.2	M	Yes 🖵
6.5.1	Does the implementation only update its	6.2.5.4	M	Yes 🗖
	NAV if the received frame is not			
	addressed to the implementation and only			
	if the NAV value is greater than the			
	current NAV value?	60.54		
6.5.2	Is the implementation's NAV accurate to	6.2.5.4	M	Yes 🗖
	1 microsecond of the busy/free condition			
	of the medium?	6055	N(No. D
6.6	Is there a SIFS time spacing between each	6.2.5.5	M	Yes 🗆
	frame of a directed burst sequence?	6.0		N []
6.7	DUplicate detetion and recovery correct ?	6.2	M	Yes 🖬
6.7.1	Does the implementation discard	6.2.5.5	M	Yes 🖵
(7.7	duplicate received fragments?	6255		Vec D
6.7.2	Are broadcast/multicast fragmented	6.2.5.5	M	Yes 🗆
	frames sent with a SIFS spacing?	620		Vac D
6.7.3	Does the implementation discard	6.2.9	M	Yes 🗆
674	duplicate received frames?	620	M	Vas D
6.7.4	Does the implementation keep a cache of	6.2.9	M	Yes 🖵
	recently-received <source address,<="" td=""/> <td></td> <td></td> <td></td>			
	sequence number, fragment number>			
675	tuples?	620	М	Yes 🖵
6.7.5	Does the implementation ackowledge	6.2.9		

	duplicate frames?	I		1
6.8	PCF protocol correct ?	6.3	C3:M	Yes 🗆 N/A 🗆
6.8.1	Do CF-Aware STAs and Point	6.3	C(3+4):M	Yes N/A
	Coordinator never use RTS in contention			
	free period ?			
6.8.2	Does Point coordinator never poll non	6.3	C3:M	Yes 🗆 N/A 🗅
	CF-Aware STAs ?			
6.8.3	Is Point Coordiantion Function (PCF)	6.3	C3:M	Yes 🗆 N/A 🗆
	activated by setting aCFP_Max_Duartion			
	to a non-zero value ?			
6.8.4	Is a Beacon frame containg a DTIM	6.3.1	C3:M	Yes 🗆 N/A 🗆
	element generated at the start of a CFP ?			
6.8.5	Do CFPs occur at aCFP_Rate ?	6.3.1	C3:M	Yes 🗆 N/A 🗆
6.8.6	Is the length of the CFP less than, or	6.3.1	C3:M	Yes \Box N/A \Box
	equal to aCFP_Max_Durationn ?		05.101	
5.9	Fragmentation protocol correct ?	6.4	M	Yes 🖵
6.9.1	Are all fragment payloads of an MSDU,	6.4	M	Yes 🖵
	except the last, an equal number of	0.4		
	octets?			
6.9.2	Is the last fragment payload smaller than	6.4	м	Yes 🗆
	or equal to the previous fragments of the	0.4	141	
	same MSDU?			
6.9.3	When WEP is not invoked, s the payload	6.4	М	Yes 🗆
0.7.5	of all fragments of an MSDU smaller	0.4	101	
	than or equal to			
	aFragmentation_Threshold?			
6.9.4	Is the payload of all fragments of an	6.4	C5:M	Yes 🗆 N/A 🗔
0.911	MSDU smaller than or equal to the	5.2		
	payload size plus the size of the IV and	5.4		
	the ICV?			
6.9.5	When a fragment is retransmitted, are	6.4	м	Yes 🗆
0.9.0	the contents and size of the payload the	0.4		
	same as when it was first transmitted?			
6.9.6	Can any size fragment, less than	6.4	M	Vac
0.2.0	aFragmentation_Threshold plus the size	0.4	IVI	Yes 🗆
	of IV and ICV, be received?			
6.9.7	Do all fragments of an MSDU have the	6.4	M	Yes 🖵
0.217	same Sequence Number in the Sequence	4.1.3.5	IVI	
	Control Field?	4.1.5.5		
6.9.8	Does the first or only fragment of an	6.4	м	Yes 🖵
01710	MSDU have Fragment Number equal to	4.1.3.5	141	
	zero in the Sequence Control Field?	4.1.5.5		
6.9.9	Do sequential fragments of an MSDU	6.4	м	Yes 🗅
0.7.7	have Fragment Numbers, in the	4.1.3.5		res
	Sequence Control Field, which	T.1.J.J		
	increment by one?			
6.9.10	Is the More Fragments bit in the Frame	6.4	м	
512110	Control Field one for all but the last or	4.1.3.1		Yes 🗖
	Control i leiu one foi all out the fast of	4.1.3.1	1 1	
	only fragment in which it is zero?		1 1	
6.9.11	only fragment, in which it is zero? When there is not enough time	6.4	C7:M	Yes 🖸 N/A 🔾

6.9.12	transmit a fragment and receive an ACK, is the defer and backoff procedure described in reference subclause followed? When the time from the first fragment transmission attempt exceeds aMax_Transmit_MSDU_Lifetime without having completed transmission of the MSDU, does the attempt to complete transmission of the MSDU cease?	6.4	М	Yes 🗖
6.10	Reassembly protocol correct ?	6.5	M	Yes 🗖
6.10.1	Is an MSDU correctly reassembled regardless of the order in which the fragments are received?	6.5	M	Yes 🗖
6.10.2	Are up to 6 MSDUs correctly reassembled when the fragments of those MSDUs are received interleaved?	6.5	M	Yes 🗖
6.10.3	When the time from receipt of the first fragment of an MSDU exceeds aMax_Receive_MSDU_Lifetime without receipt all fragments of that MSDU, are all received fragments of that MSDU discarded?	6.5	M	Yes 🗖
6.10.4	Are duplicate fragments of an MSDU discarded?	6.5	M	Yes 🗖
6.10.5	Are duplicate fragments of a directed MSDU acknowledged?	6.5	M	Yes 🖵
6.10.6	Are all Control Frames and Multicast/Broadcast frames transmitted at one of the rates in	6.6	М	Yes 🖵
	aBSS_Basic_Rate_Set?			

				an Sur	
8.1	Is a local TSF timer maintained?	8.1.1	M		Yes 🗆
8.1.1	Is the TSF timer started independently of	8.1.1.1	C1:M		Yes 🗆 N/A 🗅
	other simultaneously started APs?				
8.1.2	Does the station adopt the time stamp in	8.1.1.1	C2:M		Yes 🗆 N/A 🗅
	Beacons sent from an AP as the local				
	TSF timer?				
8.1.3	Are Beacons generated every	8.1.1.1	C1:M		Yes 🗅 N/A 🗅
8.1.4	aBeacon_Period time units? Does the station in an IBSS adopt the	0110			X
0.1.4	time stamp of a Beacon or Probe	8.1.1.2	M		Yes 🖵
	Response whose value is greater than the				
	Station's TSF timer?				
8.1.5	Does the station set its TSF timer to zero	8.1.1.2	М		Yes 🗖
	and refrain from transmitting Beacons or				
	Probe Responses when joining an IBSS				
	until it has received a Beacon or Probe				
8.1.6	Response from a member of the IBSS?	0.1.0	N		¥7 E3
8.1.0	Does the TSF timer have a modulus of 2^{64} ?	8.1.2	M		Yes 🖬
8.1.7	Does the station transmit the value of the	8.1.2	M		Yes 🖵
0.117	station correctly?	0.1.2	141		105 🖬
8.1.8	At each TBTT, does the station correctly	8.1.2.2	м		Yes 🗅
	determine when to transmit a Beacon?				
8.1.9	Does the station correctly update the	8.1.2.3	М		Yes 🗅
	value of its TSF timer?				
8.1.10	Is the TSF timer accurate to +/-	8.1.2.3	М		Yes 🖵
8.2	0.0025%?	0.1.0			W 5
8.2.1	Does the station perform scanning? Does the station perform active scanning	8.1.3 8.1.3	M M		Yes 🗆 Yes 🗅
0.2.1	and passive scanning as determined by	0.1.5	101		i es 🗆
	aScan_Mode and aScan_State?				
8.2.2	When scanning passively, does the	8.1.3.1	м		Yes 🖵
	station listen to each channel scanned for				
	no longer than aPassive_Scan_Duration?				
8.2.3	Does the station properly send Probe	8.1.3.2.1	М		Yes 🖵
0.0.4	Responses?				
8.2.4	Does the station remain awake after	8.1.3.2.1	М		Yes 🖵
	sending a Beacon and respond to Probe frames?				
8.2.5	Does the station always remain in the	8.1.3.2.1	C1:M		Yes 🗅 N/A 🗅
01210	Awake state?	0.1.5.2.1	C1.W1		ICS GINA G
8.2.6	Does the station follow the active	8.1.3.2.2	М		Yes 🖵
	scanning procedure?				
8.2.7	To initialize a BSS, does the station	8.1.3.3	C1:M		Yes 🗆 N/A 🗅
	select a BSSID, select channel				
	synchronization information, select a				
	beacon interval, initialize the TSF time				
8.2.8	and begin transmitting Beacons? Does the station perform the procedure	8.1.3.3	CULLAR		
0.2.0	to initialize a BSS or to synchronize with	0.1.3.3	C(!1):M		Yes 🗆 N/A 🗅
	a BSS?				
		8.1.4	C(!1):M		Yes 🗆 N/A 🗅
8.2.9	When operating in an infrastructure BSS,	0.1.4			

1	Lessber in the Dessen from the AD with	î	i i	ï
	value in the Beacon from the AP with which it is associated?			
8.2.10	When operating in an IBSS, does the	8.1.4	C(!1):M	Yes 🗆 N/A 🗔
0.2.10	station always adopt the information in	0.1.4		
	the Beacon or Probe Response as			
	required?			
8.2.11	Does the station implement the timer	8.1.5	C7:M	Yes 🗆 N/A 🗅
	synchronization?			
8.2.12	Does the station maintain the required	8.1.5	C7:M	Yes 🗅 N/A 🗅
	tables of hopping sequences?			
8.3	Does the station transition between	8.2.1.1	C2:M	Yes 🗆 N/A 🗅
	power states appropriately, according to			
	aPower_Management_Mode?	0.01.0		
8.4	Does the AP identify stations for which	8.2.1.2	C1:M	Yes 🗆 N/A 🖵
	MSDUs are buffered by properly setting bits in the TIM?			
8.4.1	Does the AP identify indicate the	8.2.1.2	C1:M	Yes 🗆 N/A 🗅
0.4.1	presence of buffered broadcast and	0.2.1.2		ICSUNAU
	multicast frames by setting SID bit zero			
	in the TIM?			
8.4.2	Does the AP transmit buffered broadcast	8.2.1.3	C1:M	Yes 🗆 N/A 🗅
	and multicast frames prior to unicast			
	frames after a DTIM?			
8.4.3	Does the AP transmit a TIM with every	8.2.1.3	C1:M	Yes 🗆 N/A 🗅
	Beacon?			
8.4.4	Does the AP transmit a TIM of type	8.2.1.3	C1:M	Yes 🗆 N/A 🗅
	DTIM every aDTIM_Interval rather than a TIM?			
8.5	Does the AP maintain a power	8.2.1.4	C1:M	Yes 🗆 N/A 🗅
0.5	management status for each currently	0.2.1.7		
	associated station?			
8.5.1	Does the AP buffer MSDUs for PS	8.2.1.4	C1:M	Yes 🗆 N/A 🗅
	stations?			
8.5.2	Does the AP transmit frames for AM	8.2.1.4	C1:M	Yes 🗆 N/A 🗆
	stations directly?			
8.5.3	Does the AP properly format the TIM	8.2.1.4	C1:M	Yes 🗆 N/A 🗅
051	field and transmit it in the Beacon?	0.014	CLM	
8.5.4	Does the AP buffer all broadcast and multicast frames if any stations are in PS	8.2.1.4	C1:M	Yes 🗅 N/A 🗅
	mode?			
8.5.5	Does the AP transmit all buffered	8.2.1.4	C1:M	Yes 🗆 N/A 🗅
	broadcast and multicast frames and set			
	the MoreData bit properly after every			
	DTIM?			
8.5.6	Does the AP respond to a PS Poll by	8.2.1.4	C1:M	Yes 🗆 N/A 🗅
	sending a single MSDU with the More			
	Data bit set apprpriately to indicate the			
057	presence of further buffered MSDUs?	0.214		
8.5.7	Does the AP implement an aging function to delete buffered MSDUs?	8.2.1.4	C1:M	Yes 🗆 N/A 🗅
8.5.8	When informed that a station has	8.2.1.4	C1:M	Yes 🗆 N/A 🗅
0.2.0	changed to the Active Mode, does the	0.2.1.4		
	AP send bufeered MSDUs to the station			
	without waiting for a PS Poll?			

8.6	Does the AP maintain a power management status for each associated	8.2.1.5	C(1&3):M	Yes 🗆 N/A 🗆
8.6.1	CF-Aware station? Does the AP set the bits in the TIM field correctly?	8.2.1.5	C(1&3):M	Yes 🗆 N/A 🗅
8.6.2	Does the AP transmitted to CF-Aware stations appropriately?	8.2.1.5	C(1&3):M	Yes 🗅 N/A 🗅
8.6.3	Does the AP transmit frames to a CF- Aware station under control of the point coordinator when the CF-Aware station is detected to change from PS to AM?	8.2.1.5	C(1&3):M	Yes 🗆 N/A 🗆
8.7	Does the station awaken after aListen_Interval to receive the next scheduled Beacon?	8.2.1.6	C2:M	Yes 🗅 N/A 🗅
8.7.1	Does the station issue PS Pols frames appropriately?	8.2.1.6	C2:M	Yes 🗅 N/A 🗅
8.7.2	Does the station remain in the Awake state until a response to its PS Poll is received or until a Beacon whose TIM indicates the presence of no further buffered traffic for the station?	8.2.1.6	C2:M	Yes 🗅 N/A 🗅
8.7.3	Does the station issue another PS Poll frame if the More Data bit in a received frame indicates that more MSDUs are buffered for that station?	8.2.1.6	C2:M	Yes 🗆 N/A 🗅
8.7.4	Does the station wake up to receive every DTIM?	8.2.1.6	C2:M	Yes 🗆 N/A 🗆
8.7.5	Does the station remain awake until the More Data bit of the broadcast/multicast frames indicate that no further broadcast/multicast MSDUs are buffered?	8.2.1.6	C2:M	Yes 🗆 N/A 🗅
8.8	Does the station enter the Awake state to receive the Beacon at the start of each contention free period?	8.2.1.7	C(2&4):M	Yes 🗆 N/A 🗆
8.8.1	Does the station remain in the Awake state when it detects its bit is set in the DTIM or subsequent TIMs of the contention free period until it receives a directed MSDU from the AP with the	8.2.1.7	C(2&4):M	Yes 🗆 N/A 🗆
	More Date bit indicating no further buffered traffic?			
8.9	Does the AP implement an aging function based on the aListen_Interval of each station for which traffic is buffered?	8.2.1.9	C1:M	Yes 🗆 N/A 🗅
8.9.1	Does the aging function prevent frames being discarded after any period shorter than aListen_Interval of each station for which traffic is buffered?	8.2.1.9	C1:M	Yes 🗆 N/A 🗅
8.10	When in PS mode in an IBSS, does the station initialize its power management as described?	8.2.2.2	М	Yes 🗆
8.10.1	When in an IBSS, does the station enter PS mode only if the value of the	8.2.2.3	M	Yes 🗅

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0.10.0	ATIM_Window is greater than zero?			
8.10.2	When in an IBSS, does the station transit	8.2.2.3	M	Yes 🗆
	between the awake and doze states as			
	required?			
8.10.3	When power management is in use in an	8.2.2.4	M	Yes 🗆
	IBSS, does the station buffer MSDUs for			
	stations known to be in PS mode?			
8.10.4	When in an IBSS, does the station	8.2.2.4	M	Yes 🖵
	transmit the ATIM frame as described?			
8.10.5	When in an IBSS, does the station	8.2.2.4	M	Yes 🗆
	acknowledge received ATIM frames?			
8.10.6	When in an IBSS, does the station	8.2.2.4	M	Yes 🖵
1	prevent the transmission of frames other			
	than the ATIM during the ATIM			
	window?			
8.10.7	When in an IBSS, does the station	8.2.2.4	M	Yes 🗖
	continue to buffer frames for station			
	known to be in PS mode until an			
	acknowledgment the ATIM is received?			
8.10.8	When in an IBSS, does the station begin	8.2.2.4	М	Yes 🖵
011010	transmission of buffered frames	0.2.2.1		100 -
	immediately following the ATIM			
	window, as described?			
8.10.9	When in an IBSS, does the station retain	8.2.2.4	м	Yes 🖵
0.10.2	the buffered MSDU and announce it	0.2.2.1		105 -
	again with an ATIM in the next ATIM			
	window, if the station is unable to			
	transmit the MSDU during the beacon			
	interval in which it was announced?			
8.11	Does the station implement the	8.3.1	C2:M	Yes 🗆 N/A 🗅
0.11	association procedure?	0.3.1	C2.IVI	ICS UN/A U
8.11.1		8.3.2	CLM	Yes 🗆 N/A 🗅
0.11.1	Does the AP implement the association	0.3.2	C1:M	
0.11.0	procedure?	0.0.0	02.34	
8.11.2	Does the station implement the	8.3.3	C2:M	Yes 🗆 N/A 🗅
0.11.0	reassociation procedure?			
8.11.3	Does the AP implement the reassociation	8.3.4	C1:M	Yes 🗆 N/A 🗅
0.10	procedure?			
8.12	Management Information Base			
8.12.1	Does the station implement the SMT	8.4.2.1	M	Yes 🗅
	object class?			
8.12.2	Does the station implement the MAC	8.4.2.2	M	Yes 🗅
	object class?			
8.12.3	Does the station implement the Resource	8.4.2.3	M	Yes 🖵
	Type object class?			