	J => > 0						
Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
# 1	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			
		code		vote			

Comment received on 802.11cD1.1

Legend:

de = Darwin Engwer

jzw = Johnny Zweig

as = Anil Sanwalka

mho = Maarten Hoeben

tj = Tony Jeffree

J = 100	Jennee	•	•				
tj = 1 ony 1	2.	de	T	Y	The second paragraph appears to be a placeholder. 802.11 is the first 802 standard that uses positive acknowledgements and that has explicit provisions for communicating with a bridge (i.e. the Address3 field). Therefore, 802.11c can't simply say "use the 802.11 MAC" the way most of the other supplements to 802 standards do. We must be explicit in pointing out that when an Access Point implements the bridge function the bridged LAN is accessed through the Distribution System. In an IBSS, the bridge would have to "impersonate" the addressed station and ACK frames addressed to multiple destinations (the infrastructure architecture is designed to handle non-local traffic). We also ought to point out that a bridged 802 LAN may <i>be</i> the Distribution System. A collection of APs with the same ESSID that are all bridged to an 802 LAN (which may itself be bridged) can use bridging onto and off of that LAN as the Distribution System, as well as providing access to the bridged LAN itself.	Replace the paragraph beginning "A Bridge may only connect" with this text: An 802.11 Access Point (AP) may include a bridged LAN as part of its Distribution System. MSDUs transmitted by 802.11 stations that are associated with that AP and that also have the ToDS flag set to 1 may be bridged to another 802 LAN. MSDUs from the bridged LAN may be transmitted to associated stations with the FromDS flag set to 1. In no case are directed frames from a bridged LAN that are not addressed to one of the associated stations in the BSS transmitted on the 802.11 LAN medium. Group addressed frames from a bridged LAN may be transmitted on the 802.11 LAN medium with the ToDS flag set to 1.	
					as well as providing access to the bridged LAN itself.	frames from a bridged LAN may be transmitted on the 802.11 LAN medium with the ToDS flag set to 1. Bridging to or from an 802.11 IBSS is not possible.	
2	2.	de	Т	Y	The twelfth paragraph incorrectly specifies the maximum length of the MSDU. (ref 802.11-1997 clause 6.2.1.1)	Change "the length of the MSDU must be less than or equal to 2034 octets" to "the length of the MSDU must be less than or equal to 2304 octets".	

doc.: IEEE P80.11-98/015

Seq. #	Clause number	your voter' s ID code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
1		as	E	N	Change the following sentence: The destination_address parameter is encoded in of the MAC frame as the DA described in Table 4 of Clause 7.2.2 of 802.11.	Into: The destination_address parameter is encoded in the MAC frame as the DA described in Table 4 of Clause 7.2.2 of 802.11.	
1	title page	jzw	e]	The draft obviously does not expire a year ago.	Change "January 30, 1997" to "January 30, 1998"	
2	page 2	jzw	Е		Be consistent and correct when referencing other EEE 802 standards	Refer to 802.1D as "802.1D-1993" throughout.	
3	2.	jzw	e	I	Fill in references	Change "2.5.x" to "2.5.6"	
4	2.	jzw	T	F F F S S i t t t t t t t t t t t t t t t t t	The second paragraph appears to be some kind of placeholder. 802.11 is the first 802 standard that uses positive acknowledgements and that has explicit provisions for communicating with a bridge (i.e. the Address3 field). Therefore, 802.11c can't simply say tuse the 802.11 MAC" the way most of the other supplements to 802 standards do. We must be explicit in pointing out that when an Access Point implements he bridge function the bridged LAN is accessed hrough the Distribution System. In an IBSS, the oridge would have to "impersonate" the addressed station and ACK frames addressed to multiple lestinations (personally, I think we should not allow oridging from an IBSS, since the infrastructure architecture is designed to handle non-local traffic). We should also point out that a bridged 802 LAN may be the Distribution System. A collection of APs with he same ESSID that are all bridged to an 802 LAN which may itself be bridged) can use bridging onto and off of that LAN as the Distribution System, as well as providing access to the bridged LAN itself.	Strike paragraph beginning "A Bridge may only connect" and replace it with this text: An 802.11 Access Point may include a bridged LAN as part of its Distribution System. MSDUs transmitted by 802.11 stations associated with that AP with the ToDS flag set to 1 may be bridged to another 802 LAN, and MSDUs from the bridged LAN may be transmitted to associated stations with the FromDS flag set to 1. In no case are directed frames from a bridged LAN that are not addressed to one of the associated stations in the BSS transmitted on the 802.11 LAN medium. Group addressed frames from a bridged LAN may be transmitted on the 802.11 LAN medium with the ToDS flag set to 1. Bridging to or from an 802.11 IBSS is not possible.	

Seq. #	Clause number	your voter' s ID code	Cmnt type E, e, T, t	Part of NO vote		Recommended change	Disposition/Rebuttal
5	2.	jzw	E		The fourth paragraph is incomplete and has a typo. (I know it is easy to get confused since 802.1D specifies "media access control" whereas 802.11 specifies "medium access control" — a bridge accesses more than one medium, thus the pluralization	Replace ", and clause 9 specifies the media access control protocol." with ", Clause 9 specifies the medium access control sublayer function, and Clause 11 specifies the mandatory medium access control sublayer management function."	
6	2.	jzw	E		The sixth paragraph has unspecified references.	Change "Clause XXX" to "Clause 9" and change "MA_UNITDATA.indication, constructed via Clause 7.1 MAC Frame Formats, IEEE STD 802.11-1997, Clause X, and annex C (Process MSDU_to_LLC)." to "MA_UNITDATA.indication, constructed via Clause 7.1 MAC Frame Formats, according to IEEE STD 802.11-1997, <u>Clause 7,</u> Clause 7, Clause X, and annex C (Process MSDU_to_LLC).".	
7	2.	jzw	e		Typo in the seventh paragraph	Change "when generating MA_UNITDATA.indication primitive" to "when generating an MA_UNITDATA.indication primitive".	
8	2.	jzw	t		The seventh paragraph is insufficiently precise in describing how to translate "user_data_frame" to 802.11 frame type/subtype values.	Add this sentence after "and is explicitly encoded in MAC frames": The 802.11 MSDU will be transferred using frames with a type of "data" and a subtype that depends on whether the frame is transmitted during a Contention Free Period or during the Contention Period.	
9	2.	jzw	t		The twelfth paragraph incorrectly specifies the maximum length of the MSDU (both in how it defines it and in the number of octets).	Change "the length of the MSDU must be less than or equal to 2034 octets" to "the number of octets in the Frame Body fields of the distinct MPDUs used to transmit the MSDU	

	J 1 //						
Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	Е, е,	NO			
		code	T, t	vote			

						must be less than or equal to 2304".	
10	2.	jzw	e		(In the thirteenth paragraph) Q: What indefinite article ought to be used before "MA_UNITDATA"? Also, there is no such thing as "MA_DATAUNIT"	Change "a MU_DATAUNIT" to "an MA_UNITDATA".	
1	2	mho	E	N	 Paragraph 12, last sentence reads; . For 802.11 the length of the MSDU must be less than or equal to 2034 octets. According to 6.2.1.1 of the 802.11 draft, the length of the MSDU must be less than or equal to 2304. 	Change 2034 to 2304.	
2	2	mho	E	N	Paragraph 2; A Bridge may only connect to an 802.11 Distribution System but the Distribution system is not yet defined. <u>But</u> the SAP of the Distribution System is identical to the SAP of the MAC. The second 'but' does not read very well.	A Bridge may only connect to an 802.11 Distribution System but the Distribution system is not yet defined. <u>However</u> , the SAP of the Distribution System is identical to the SAP of the MAC.	
3	2	mho	Τ	Y	Paragraph 13; The 802.11 standard does not separate data sent during the PCF from data sent during the DCF. It is made clear that data that could not be sent during the PCF may be sent during the DCF (For example, clause 9.3 reads; If the Data frame is not in turn acknowledged, the CPPollable station shall not re- transmit the frame unless it is polled again by the Point Coordinator, or it decides to retransmit during the Contention Period). It is therefor not desired to make this distinction the MA_DATAUNIT.indication by means of the priority mechanism because 802.11 itself mixes the two classes. If also not explicitely stated that DCF traffic may not be sen during the PCF!	802.11 standard and do not mix the two separate traffic classes.	
1		tj			In most of the references to 802.1D in the draft, the page numbering and clause numbering does not appear to correspond to any draft of 802.1p or 802.1D in my posession! Given that the revision of 802.1D is now (almost) out for sponsor ballot, you will need to re-cast the text as revisions to the new edition of 802.1D; see text of P802.1D/D15 on the 802.1 FTP server. The section numbers have all changed, as has	It will be published by IEEE and ISO under the ISO title of "Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Common specifications - Part 3: Media Access Control (MAC) Bridges". I will	

January 1998 doc.: IEEE P80.11-98/015 Seq. Clause Cmnt Part **Comment/Rationale Recommended change Disposition/Rebuttal** your number voter' # type of s ID E, e, NO T, t code vote

					1
			the title.	detail the changes needed in the	
				subsequent comments.	
2	1.1	tj	Changes to "1.1 Scope" - page 2. In both P802.1p/D8 and P802.1D/D15, Scope is section 1.2. I could not find what this change related to.	Delete it.	
3	1.2	tj	Changes to "1.2 References" - page 2. The references are now in clause 2. Also, the title you give for the standard appears to be the ISO title, but you have given the IEEE standard number/publication date. Need to decide which you are going to cite, and then give the appropriate number/title.		
4	2	tj	Changes to "2. Support of the MAC service" - page 2:	 Support of the MAC service is clause 6; the new subclause for 802.11 should therefore be clause 6.5.7., and drop the publication date from the section title. First para - seems a little difficult to specify that Bridges can connect only to some undefined entity. Is this supplement being defined prematurely? Second para - (underlined text) - What are the management requirements, and are they relevant to this supplement? Either delete the comment or include the requirements. Fourth and fifth paragraphs. This seems to be open to simplification, as follows: "On receipt of an M_UNITDATA.request primitive 	

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Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter' s ID	type E, e,	of NO			
		code	T , t	vote			
						the level MAC antitude of the second	
						the local MAC entity constructs and transmits a MAC frame, in	
						accordance with the frame formats	
						and procedures specified in IEEE	
						Std. 802.11 clauses 6, 7, 9 and annex	
						C, using the parameters supplied as specified below.	
						On receipt of a valid MAC frame	
						(see IEEE 802.11 clause XXX Receive MAC_FRAME), an	
						M_UNITDATA.indication primitive	
						is generated with parameter values	
						derived from the frame fields as specified below."	
						- Parameter definitions (Page 3). A cleaned up version follows:	
						-	
						"The frame_type parameter only	
						takes the value user_data_frame and is not explicitly encoded in MAC	
						frames.	
						The mac_action parameter only	
						takes the value request_with_no_response and is not	
						explicitly encoded in MAC frames.	
						The destination_address parameter is	
						encoded in the MAC frame as the	
						DA described in Table 4 of Clause 7.2.2 of IEEE Std. 802.11.	
						The source_address parameter is	
						encoded in the MAC frame as the	
						SA described in Table 4 of clause	

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Seq. #	Clause number	your voter' s ID code	Cmnt type E, e, T, t	Part of NO vote	Comment/Rationale	Recommended change	Disposition/Rebuttal
			,			7.2.2 of IEEE Std. 802.11.	
						The routing information parameter (IEEE STD 802.11-1997, Clauses 6.2.1.1 and 6.2.1.2) is set to null.	
						The mac_service_user_data parameter is encoded in the Frame Body field (IEEE STD 802.11-1997, Clause 7.1.3.5) of the MAC frame. The length of the MSDU must be less than or equal to 2034 octets.	
						The user_priority parameter is not encoded in the MAC Frame. The user_priority parameter provided in a M_UNITDATA.indication primitive takes the value of zero when the indicated priority is Contention and the value of four when the indicated priority is ContentionFree, as defined in 6.2.1 of IEEE STD 802.11-1997.	
						The frame_check_sequence parameter is encoded in the Frame Check Sequence (FCS) field of the MAC frame. The FCS is calculated over all the fields of the MAC header and the frame body field. The calculation is completed using a standard generator polynomial of degree 32 in accordance with IEEE STD 802.11-1997, 7.1.3.6 FCS.	
						The access_priority parameter is not encoded in the MAC frame.	

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	Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
	#	number	voter'	type	of			_
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			code	T, t	vote			

					No special action, above that specified in IEEE STD 802.12-1995, is required for the support of the MAC Internal Sublayer Service by the Wireless LAN access method."	
5	14.4.2.1 .3	tj		Changes to "14.4.2.1.3 Outputs".	To be consistent with the other entries in this list, change the text insertion to simply "; 802.11". Similarly, drop the "-1997" from the PICS proforma reference.	
6	3.4	tj		You will need to include 802.11 in the definition of a LAN in clause 3.4 of D.	Text as follows: "3.4 IEEE 802 Local Area Network (LAN) Page 21, line 40. Insert ', IEEE 802.11' before 'and ISO 9314-2'."	

Seq.	Clause	your	Cmnt	Part	Comment/Rationale	Recommended change	Disposition/Rebuttal
#	number	voter'	type	of			
		s ID	E, e,	NO			
		code	T, t	vote			