Summary Of 1994 Motions of the Frequency Hop Group

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Abstract:

This submission is a summary of the technical motions passed in the Frequency Hop Group during 1994. The listing is taken directly from the published minutes. It is hoped that this listing will be useful to the members of the Frequency Hop Group.

Jan 94

Jerry Socci: If your received power is below some threshold, you can go ahead and blast. If your received power is above the threshold, you can also blast but only if you can't detect a clock (no bits are present). That is, you defer iff power is above the threshold AND your clock recovery circuits indicate bit sync.

MOTION : We accept Jerry's proposal [above] as a baseline and call for submissions on CCA

Moved: T. Blaney, Seconded: E. Geiger

The chair ruled Motion 1 passed unanimously.

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MOTION The FH PHY group accepts IBM's proposed hopping sequences, in document 93/@ for 802.11compatible FH WLANs.

Moved: J. McKown, Seconded: W. Moyers

VOTE ON MOTION : Yes=16, No=0, Abstain=2. Motion 1 passes.

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MOTION We shall remove from 93/161 all reference to the subject matter of line 16 of 93/83r2 (fall back data rates below 1 Mbps).

Moved: J. McKown, Seconded: J. Renfro

VOTE ON MOTION 1: Yes=12, No=0, Abstain=5

MOTION We shall remove from 93/161 all reference to the subject matter of lines 17 and 17a of 93/83r2 (baseband bit jitter & clock accuracy).

Moved: J. McKown, Seconded: M. Traynor

VOTE ON MOTION : Yes=4, No=1, Abstain=2. Motion 3 passes.

MOTION In-band spurious emissions shall be -55 dBc.

Moved: P. Chadwick, seconded R. Jellicoe

VOTE ON MOTION : Yes=9, No=0, Abstain=5. Motion 4 passes.

March 94

MOTION : Editing of the FH draft spec will proceed by simple majority and will be confirmed in the FH ad hoc group by 75% majority of the voting members. Moved: E. Geiger. Seconded: C. Zegelin.

VOTE ON MOTION : Motion passes unanimously by acclaim.

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MOTION : The FH group accepts 94/68 as the FH working draft standard. Moved: P. Chadwick. Seconded: D. Kawaguchi.

VOTE ON MOTION : for=12, against=1, abstentions=0. The motion passes.

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July 94

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Motion:

After discussion, proposed Dean Kawaguchi, seconded Stuart Kerry, that CCA must be evaluated with an antenna that has essentially the same coverage and loss as the transmit antenna.

Question called Jerry Loraine, seconded John McKown

In favour 10 Opposed 2 Abstention 1

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Motion:

Dean Kawaguchi proposed to amend to read [90%] probability of detection for preamble, and a [70%] probability for random data. Seconded by Wayne.

Question on acceptance for the amendment called by Jerry Loraine, seconded Jim Renfro. In favour: 14. Against: 2. Abstentions: 2.

March 1995

Motion:

Ed Geiger moved to amend to remove the section "or any signal greater than [-50dBm]."

Question called Ed Geiger seconded John McKown

In favour: 13 Opposed: 4 Abstentions: 1

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Motion:

Ouestion called by Ed Geiger, seconded by John McKown, on the motion which reads

"In the presence of any 802.11 compliant FH PHY signal above [-80]dBm, the PHY must signal busy within [16]us at [90]% probability of detection for preamble and a [70]% probability detection for random data. Note: [] = TBD"

In favour 13, Against 3, Abstentions 3.

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Motion:

Moved by Dean Kawaguchi that the CCA threshold as defined in the proceeding motions above be - 85dBm. Seconded Stuart Kerry.

Question called by Jim Renfro, seconded Jerry Loraine

Question called.

In favour 13 Opposed 0 Abstentions 2

Motion:

After discussion, proposed by Jerry Loraine, seconded Dean Kawaguchi, that the receiver sensitivity be - 84dBm midband, -82dBm band edge. Friendly amendment to -80dBm, by Jim Renfro, seconded Peter Chadwick. Moved to call the motion Dean Kawaguchi, seconded Jerry Loraine, Unanimous 13,0,0 voting.

MOTION CARRIES

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Motion:

Moved to define that the above figure applies at a 1 in 10*5 BER moved by Dean Kawaguchi, seconded Jim Renfro. Question called by Jerry Loraine, seconded Dean Kawaguchi. Question called, 11 in favour, 2 abstentions.

MOTION CARRIES

submision

McDonald

Motion:

Proposed Jerry Loraine, seconded Dean Kawaguchi, that the IM performance in 94/78 be accepted, except the level be -30dB. Question called by Wayne Moyers, seconded Dean Kawaguchi. On the calling of the question, voting, 7 in favour, 1 against, 1 abstention. Voting on the motion: 7 in favour, 2 against, 0 abstenti ons.

MOTION CARRIES

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Motion:

Proposed Jerry Loraine, that the desense test in 94/78 be accepted, except that at 2MHz, the figure be 30dB, and at 3MHz 40dB, with the desired signal at -3 dB relative to sensitivity. Friendly amendment by Peter Chadwick to amend sensitivity to -80dBm. Accepted. Peter Chadwick raised point of clarification regarding the interfere signal - is it amplitude modulated? AGREED that the signal is NOT amplitude modulated.

Move to call the question: Peter Chadwick, seconded Jerry Loraine, passed.

Voting on the motion: In favour 7, against 1, abstentions 4.

MOTION CARRIES.

Motion:

Moved Ed Geiger, seconded Wayne Moyers that the document (94/159) be accepted, with the proviso that some figures are TBD.

Question called by: Peter Chadwick seconded: Jim Renfro Question called unanimously

Voting on the motion: for: 11 against: 1 abstentions: 1

MOTION PASSES.

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Motion:

Proposed to enter the contents of 94/156 into 94/68. proposed Dean Kawaguchi, seconded Wayne Moyers. On the motion, accepted 8,0,4.

Motion:

Naftali Chayat presented 94/206, proposing a better unique word, and moved to adopt 5555 0CBD. Question called Dean Kawaguchi, seconded Wayne Moyers.

Question called. Motion passes 7, 0, 2.

Aug/Sept 94

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Motion to remove min column from 9.5.7.2 by JimR and second by EdG. No discussion result: 6,0,0 passed.

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... Motion:

From 94/111:

"The occupied channel bandwidth for the PMD is 1.0 MHz wide. This 1.0 MHz must contain 99% of the emitted energy. The FCC may impose a further restriction on transmitted bandwidth requiring the 20 dB bandwidth, as measured with a spectrum analyzer and referenced to the magnitude at the center of the transmitted bandwidth to be less than 1 MHz.

The transmitter center frequency shall be within +-25ppm of one of the specified operating center frequencies listed in section 9.5.7.3. The following diagram (Fig. 9-11 of 94/068r3) illustrates the relationship of the operating transmitter center frequency to the occupied channel bandwidth."

EdG calls the question John M 2nd. result: 6, 0,0 question called. vote on motion result: 4, 1,1 passed.

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MOTION:

"The absolute mid-symbol peak deviation throughout the packet shall be at least 110 kHz with respect to the center frequency during the last 8 bits before the unique word."

2nd by JimR

Discussions on the definition and the measurement of center frequency.

LarryZ: proposes to define the center frequency to be the average of the difference of the average of maximum and minimum deviations.

JL: call the question, JohnM: 2nd, passes.

Vote on motion: 10,1,1 passes.

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MOTION:

Zero Crossing error shall be less than +-1/8 of a symbol, per diagram. This motion will include a picture by EdG. Moved by CJ. 2nd by EdG. Vote on Motion: 9,1,2 passes

Motion: Set Time from MAC command to start a transmission of the first bit of 1,0 preamble is 20 usec, Maximum. based on the following R/Tt as defined in 94/113 < 10 usec Xmit Delay, TDt < 1 usec Ramp Allocation = 8 usec MAC State Machine delay < 1 usec moved by JimM, 2nd by JL Vote: 9,1,2 passed _____ Motion: TBD microsecond in 9.5.7.11 of 94/068r3 is 224 usec. The frequency accuracy TBD kHz is changed to 60 kHz. Moved by JimM, 2nd by JohnM Vote on Motion: 6,1,0 the motion passed. Motion: 9.5.7.15 VSWR Move to delete this spec. by JL, 2nd by EdG Vote: on Motion: 8,0,0 the motion passes Motion: Slot Time is 50 usec. The interval from the MAC command to transmit to the appearance of the first bit of the preamble at the RF antenna (also called collision time) is a maximum of 20 usec. The channel shall be assessed for at least 30 usec. The interval from the start of the preamble at the antenna to the time when the ch_busy line goes high is a maximum of 16 usec. Moved by JimM, 2nd by EdG JohnM calls the question, JL second Vote: 8,0,0 the question is called Vote on motion: 8,0,1 the motion passes. Motion: Frame Length of 94/69 proposal is 32 bits by EdG, 2nd Stuart Vote on Motion: 5,1,1 motion passes.

March 1995

Motion: Define CCA Threshold as a function of the intended RF power level. CCA Threshold = -65 dBm - Transmit Power in dBm. by LarryZ, 2nd by JimR 几 call the question the question is called. Vote on Motion: 4,0,4 the motion passes. Motion: JL: propose a change in the motion text The 802.11 compliant frequency hopping transmitters shall be labeled in four classes according to their maximum nominal EIRP Class 1 up to 10 mW Class 2 up to 100 mW Class 3 up to 500 mW Class 4 up to 1 W. 2nd by Wayne Moyers Stuart: Call the question, Wayne 2nd Vote: 9,0,0 the question is called. Vote on Motion: 7,2,2 the motion passes. Motion: WayneM: the last word in the text of 9.5.8.2 should be 1000mW rather than 100mW. Motion: Change last word in 9.5.8.2 to 1000mW. CJ 2nd. Vote on Motion: 7,0,3 the motion passes. Motion: The transmit spectrum mask shall be measured under dynamic conditions such that the power generated in a 1 MHz Channel, for a given carrier offset, shall be less than the values in the table below: Channel Offset (MHz) Specification Limit (dBc) -40 +/-2

The radio shall be set to alternatively xmit and rcv with nominal duty cycle ratio of 1 to 1. And the xmit packet length shall be greater than 300 usec and less than 2 msec. moved by JL, JimR 2nd.

Vote on Motion: 10,0,2 the motion passes.

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submision

>= +/-3

March 1995

JohnM:	It shall n 2nd by C	Delete the table a naintain this stab J motion: 10,0,0 th	ility over	the state			erature ra	ange.	
Nov 94	ŀ								
(Paragra	aph numb	ers in this section	n in gene	ral refer	to 58r5.))			
PLCP_P	DU may	FHSS PLCP prea run at 1,2 Mbps &			per figur	e 9-3 sha	all be at I	PLCP_ra	te. The
	ved: Pabl	0	2nd:	Wayne				17/1/2	
	Motion: Moved:	Accept frame coo Mike	ling per	94/287 2nd :	Wayne			Vote:	16/2/2
authoriti	Motion:	Add the internati							t to the regulatory
autionu	Moved:	Dean		2nd :	Kieth			Vote:	17/0/1
	Motion:	Change +/-25ppr			9.6.5				
	Moved:	Jim	2nd :	Nathan		Vote:	consens	Sus	
		The default dwel							
	Moved:	Ed	2nd:	John M			Vote:	12/0/1	
	Motion: Moved:	Approve Change Ed	s to 9.6.) 2nd :	l to 9.6.7 Mike			Vote:	14/0/0	
		Add Equivalent <u>1</u> regulatory author John Sonnenberg	rities in t			le.	eference t 15/0/1	0	
. 0.4	5 18 Tron	smit nower level							
- 7,0		smit power level							
	Motion: Moved:	Delete section 9.0 Stuart	5.18	2nd :	Peter			Vote:	12/1/1

Motion: Strike section clock recovery time (9.6.28 in 68r5)Moved: Ed2nd:John MVote:12/0/0

Motion: Accep Moved: Ed		2nd :	Keith			11/0/2	
9.6.22 PMD receiv							
9.6.23 Input dynametric discussion on	·						
Motion: Modif Moved: Peter	y title to I	nput dyna	amic ran 2nd:	ge Dean		Vote:	10/0/0
Motion: Accep	t the text a	as defined	1 in 0681	6 sect 9.6.23			
Moved: Peter			2nd:	Dean		Vote:	13/1/1
9.6.24 Selectivity							
Motion: Delete	section						
Moved: Peter				Dean		Vote:	
9.6.25 Channel Bl	ER	********					
Motion: Delete	section			_			
Moved: Jerry			2nd :	Peter		Vote:	11/2/1
9.6.26 Rx center fi Motion: Modify		ance rang bove and	ge reflect c	hanges as in 068			
9.6.26 Rx center ff Motion: Modify Moved: Ed	req accept y title to a	ance rang bove and 2nd:	ge reflect c Charlie	hanges as in 068		.21 11/0/0	
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Motion: Accept Moved: Ed				Vote:	consensus
9.7.11 Channel Da	ta rate				
Motion: Accept	text as in 068r6				
Moved: Ed	2nd: Jerry			Vote:	consensus
9.7.12 to 9.7.24_OI		cept for 9.	7.23 below		
9.7.23_Input dynam					
Motion: Accept					
Moved: Ed	2nd: Jerry			Vote:	consensus
9.7.25 Channel BE	ER	••••••			
Motion: Delete					
Moved: Ed	2nd: Jerry			Vote:	consensus
9.7.26 to 9.7.28_O	K as 1M Phy				
9.7.29 Jitter tol					
Motion: Delete	section		_		
Moved: Jerry		2nd :	Peter	Vote:	consensus
9.7.30 to 9.7.31_O	K as 1M Phy				
9.6.32 Rx sensitivit	ty				
Motion: Accept	text as in 068r6		D (
Moved: Jerry		2nd :	Peter	Vote:	consensus
9.6.33 Intermodula	tion				
Motion: Accept	text as in 068r6				
Moved: Ed	2nd :	Jerry		Vote:	consensus
9.6.34 Desense					
Motion: Accept	text as in 068r6				
Moved: Ed	2nd :	Jerry		Vote:	consensus

9.6.20 Tx spectrum Motion: Accept		d by Iorm	and edited int	0.06816	
Moved: Jerry	inputs as ucilite	2 of y jerry	Nathan	Vote:	consensus
·					
's Question: Is the	editors' transla	ion of Jeri	ry's input accu	irate as show	n in r6?
9.6.13 RxTx switc	h time				
Motion: Accept	inputs as define	d by Jerry	and edited int	o 068r6	
Moved: Ed	2nd:	Јеггу		Vote:	consensus

- 9.6.18 Tx power level control Motion: Power level adjustment,	if perfor	med will t	be done b	y a man	agement	entity and deletes
Twpwrlvl parameter in 9.2.2 of 068r5 Moved: Jerry	2nd :	Ed		Vote:	consei	nsus
- 9.6.28 CCA Threshold				******	******	
Motion: Accept edits in 068/r6 (r					•	
Moved: Jerry	2nd :	Charlie		Vote:		
- 9.6.23 CCA response time		*****		•••••	*********	
Motion: Add sentence to 9.3.3.2.	1 to cove	r async ca	se (Dean	s wordir	ıg)	
Moved: Dean	2nd :	Charlie		Vote:	conser	isus
Motion: Delete section 9.6.23 (co						
Moved: Dean	2nd :			Vote:		
- 9.6.30 & 31 Ramp up & Ramp d		ode		••••••	••••••	
Motion: reopen .31		ous				
Moved: Peter	2nd:	Charlie		Vote:	consen	5116
Motion: Modify text as defined in				t. chang	e hit ner	ind to us & nower
levels relative to full Tx power in 9.6.30 &	: 31			, •1B	o on por	
Moved: Peter	2nd :	Charlie		Vote:	consen	sus
- 9.2 FHSS service parameter lists Motion: Modify text as defined in Moved: Ed 2nd:		• put in tex		sel and F	RSSI	
		••••••		•••••		
 - 9.7.10 4 level GFSK Modulation Motion: Modify text as defined in 	0691-6					
Moved: Jerry 2nd:	Brian M			Vote:	consen	sus
• Motion: Accept text as defined in 068,	/r6 with	understand	ding that	text is b	eing und	ated to reflect
changes approved during FH Phy session to	o date.				enng upu	
Moved: Dean 2nd:	Keith			Vote:	16/0/1	
 Motion: Present to Phy & Plenary, a n summarizes the 94/068r6 document." 	notion " A	Accept the	: 068/r5 p	lus the e	errata 94	/242 which
Moved: Dean 2nd:	Keith			Vote:	13/0/0	
		••••••		•••••		
- Par req of 99.5% probability of chann Motion: Delete 9.6.14	nel availa	bility				
Moved: John	2nd :	Nathan		Vote:	consens	sus
Action: Jim M to prepare a moti						
- 4 level FSK _ Text has been generate Motion: Accept the text as defined	d jointly	by Naftali	i and Jerr	y and gi	ven to th	e editors
Moved: Jerry	101 74/0	2nd :	an. Wayne		Vote:	13/0/1