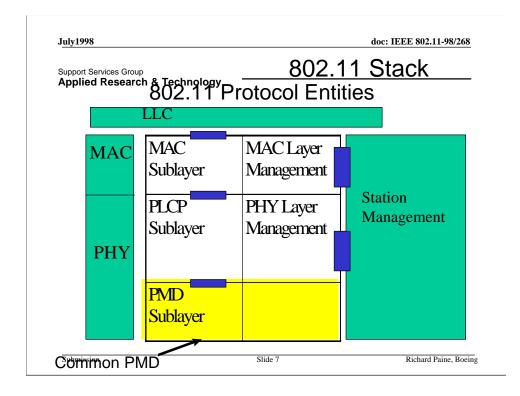


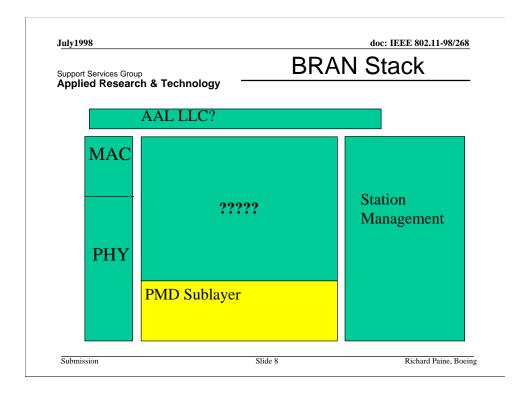
	S	ТР
Support Services Group Applied Research & Technology	,	11
Situation		
Potential Worldwide	frequency at 5.??G	Hz
 BRAN committed to 		
 IEEE 802.11 commi 		-
 Current PMDs at 5.3 		、 ,
Tanat		
Target		
Worldwide common		
 End user devices wi Standard PMD 	ith a single radio PM	D IF (software radio?)
 Standard PMD 		
Proposal		
Common PMD (neit	bor Hiporl AN por 80	12 112)
		e unlicensed frequencies
	incopt doining available	
Submission	Slide 3	Richard Paine, Boeing

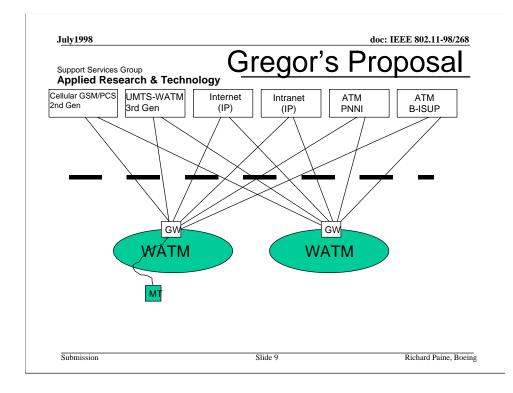
Support Services Group Applied Research & Te		n Meeting
Combined r	neeting of IEEE 802.11	and BRAN
• 802.11 impre		
Submission	Slide 4	Richard Paine, Boein

Support Services Group FI Applied Research & Tech	equencies for a	Common PMD
• U-NII		
• 5.15 to 5.2	95 GHz∖	
• 5.25 to 5.3		z Total
• 5.75 to 5.8		
• HIPERLAN 1		
• 5.15 to 5.2	25 GHz 1	00MHz Total
	150MHz extension (a	
		,
Submission	Slide 5	Richard Paine, Boeing

July1998 Support Services Group Applied Research & To	U-NII Rules/HIPE	RLAN Rules
 FCC unlicense Rules 5.15GHz < 5.25GHz 1 5.75GHz < 	-3W	structure (U-NII)
	Dedicated to HiperLAN 50MHz extension ?	
Submission	Slide 6	Richard Paine, Boeing







July 1998 doc: IEEE 802.11-98/268 IEEE 802.11 5.15GHz Radio Proposals Applied Research & Technology

Company	Lucent + NTT	Breezecom + NEC	RadioLAN
Modulation Method	OFDM, DBPSK, 16 QAM in each subcarrier	Offset Quadrature OQPSK/OQAM	Differential PPM (16-DPPM, 4- DPPM)
Pulse Shaping	48 Subcarriers out of 64	50% Sq Root Raised Cosine	50% Sq Root Raised Cosine
Error Codes	Convolutional K=7, R=1/2 or R=3/4 inter- carrier interleave	Hamming (31,26) uncoded option	Uncoded option for Reed Solomon (15.13) coded with interleaving
Rates	5Mbps (DBPSK, R=1/2) 10Mbps (DQPSK, R=1/2) 15Mbps (DQPSK, R=3/4) 20Mbps (16QAM, R=1/2) 30Mbps (16QAM, R=3/4)	21Mbps (2 IvI OQPSK coded) 25Mbps (2 IvI OQPSK uncoded) 42Mbps (4 IvI, OQAM coded 50Mbps (4 IvI, OQAM uncoded	10Mbps (4-DPPM) 20Mbps (16-DPPM) 20Mbps (16-DPPM) coded

http://grouper.ieee.org/groups/802/11/Reports/index.html

Submission

Slide 10

Richard Paine, Boeing

Support Services Group		llaborate?
Applied Research & Tech	inology	
 Markets 	for wireless	
 Vertical - 	multinationals, nationals, regiona	ls, locals
	I - multinationals, nationals, regio	nals, locals
 IEEE 802 	2.11	
	and Asian companies	
•	osophy of common MAC to suppo	•
	osophy of supporting US FCC fre .11 Standard	quency distributions
• BRAN		
• DIXAIN • FC		
=•	ilosophy of supporting CEPT freq	uency distributions
Number		
	ndors sell more products with the	ir own PMD?
	ndors sell more products with a c	
	·	
Submission	Slide 11	Richard Paine, B

J <u>uly1998</u>		doc: IEEE 802.11-98/268	
Support Services Group Applied Research & Techno			
Combined PMD ha	s too much merit to b	be dropped	
Collaboration with t	he WRC to make 5.3	??GHz international	
Collaboration Supp	orted by Multi-nation	al Corporation View	
	oup of BRAN-WATM I liaisons (Boer, Phip		
Submission	Slide 12	Richard Paine, Boeing	