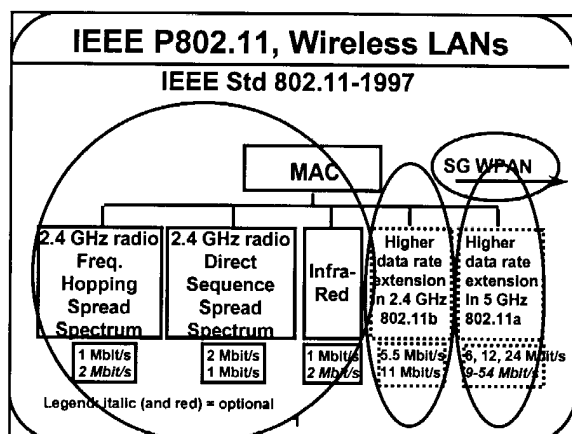


# P802.11 at the March 1999 session

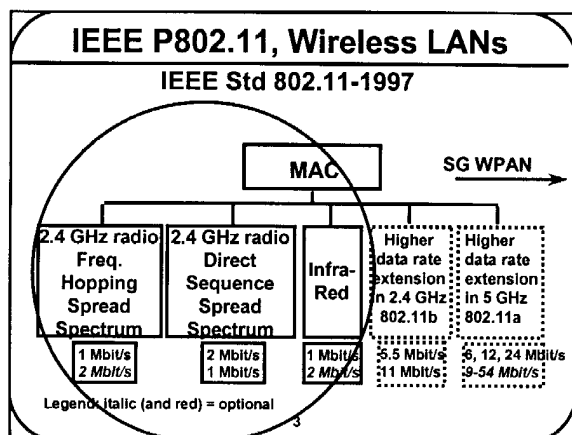


**IEEE P802.11, Wireless LANs**

**Interim Meeting**

- **Wireless Summit**
  - Whole 802.11 Working Group (including Study Group WPANs)
  - ETSI-BRAN
  - NWest and
  - the Japanese Mobile Multimedia Access Promotion Council (MMAC/PC)
- January 10-14, 1999, hosted by Harris, ~220 attendees
- Lake Buena Vista, Grosvenor Hotel
- **Results**
  - Potential worldwide standard for 5 GHz PHY (MMAC/PC Wireless Ethernet WG adopted the 802.11 MAC too)

2

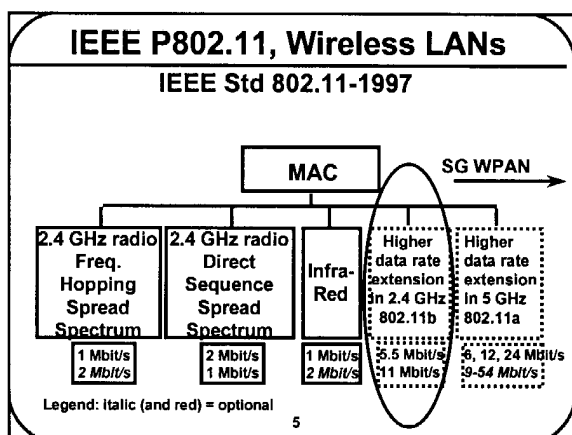


**IEEE P802.11, Wireless LANs**

**Revision of 802.11-1997**

- Recirculation on instruction from RevCom
- Conditional approval from SEC to submit to RevCom
- Comment received from 3 RevCom members
- 2 Regarding the scope of the changes made
- To be resolved this week

4



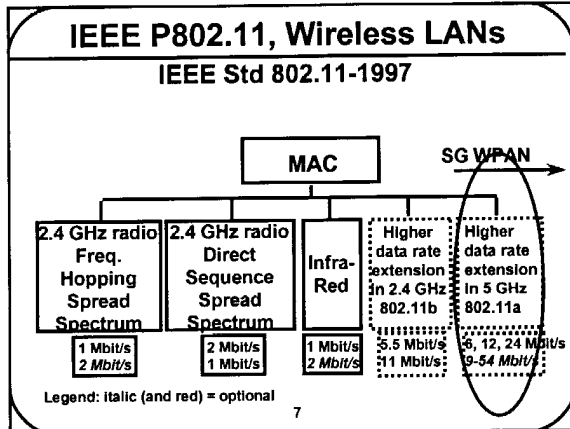
**IEEE P802.11, Wireless LANs**

**Task Group b**

- Extension for higher data rates in 2.45 GHz band
- Modulation is Direct Sequence Spread Spreading using Complementary Code Keying (CCK)
- 11 Mbit/s, with fall back rate of 5.5 Mbit/s
- Further fall back into 2 Mbit/s and even 1 Mbit/s in case of very bad channels
- Packet Binary Convolutional Coding (PBCC) option
- Frequency Agility option: the whole Direct Sequence channel (10 MHz) hops over the band covering the 1 Mbit/s Frequency Hopping channel
- 3rd Recirculation ballot closed with 94 % approval

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# P802.11 at the March 1999 session

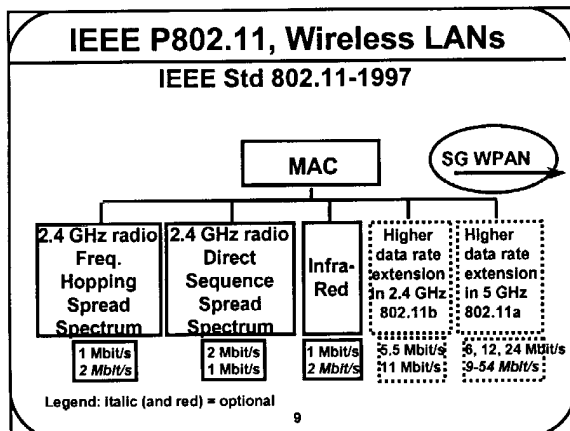


**IEEE P802.11, Wireless LANs**

**Task Group a**

- Extension for high data rates in 5 GHz band
- Modulation is Orthogonal Frequency Division Multiplexing (OFDM)
- Mandatory rates are 6, 12 and 24 Mbit/s.
- Optional rates are 9, 18, 36, 48 and 54 Mbit/s
- High quality agreement on modulation and parameters with ETSI BRAN
- MMAC/PC Wireless Ethernet Working Group has adopted the 802.11 PHY and MAC for their own standard
- Presentation given to 802.N-WEST
- We are looking at a world wide standard!
- Recirculation result: 92 % approval

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**IEEE P802.11, Wireless LANs**

**Study Group WPAN**

- The Study Group for Wireless Personal Area Networks (WPANs) submitted the PAR and 5 Criteria to LMSC
- A revised version went into recirculation ballot and achieved 90 % approval
- This version will be the one to be worked on this week
- Deadline comments Tuesday 5 PM
- Deadline new version is 5 PM Wednesday
- Tutorials this week from HomeRF and Bluetooth on Tuesday evening

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**IEEE P802.11, Wireless LANs**

**Regulatory issues**

- Microwave Lighting in the 2.45 GHz band
- FCC proposes in an Notice of Proposed Rulemaking (NPRM) to approve the lighting without radiation limit
- Part 15 community proposes radiation limits
- 802.11 empowered a Regulatory Subcommittee to represent and negotiate with the lighting industry under FCC
- Lighting industry unwilling to provide data nor want to participate in tests

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**IEEE P802.11, Wireless LANs**

**Objectives for this Session**

- To resolve comments on ballots of draft 802.11a and draft 802.11b
- To submit the drafts to Sponsor Ballot
- To submit WPAN's PAR and 5 Criteria to ExCom for submission to NesCom

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# P802.11 at the March 1999 session

IEEE P802.11, Wireless LANs					
Rough Graphic Outline					
	Monday	Tuesday	Wednesday	Thursday	Friday
AM	Exec Tgb SG Comm	Tga SG	Tga SG	Tgb SG	802 Plenary
	802Pl Tgb SG	SG	Full 802.11	Tga SG	
PM	IEEE Tutorial Full 802.11	Tgb SG	Tgb SG	Full 802.11 Reports/Outp Next mtng	
Eve- ning	Tga	Tut. WPAN1	Social	Exec. Ming Comm. Prep.	
	Tut. Electr blt	Tut. WPAN2	Event		

Legend: ..... = flexible adjournment/start  
 Working Group and Task Groups: Texas Ballroom 5 & 6  
 WPAN: Texas Ballroom 7

February 1999      Vic Hayes, Chair, 802.11 Working Group      13