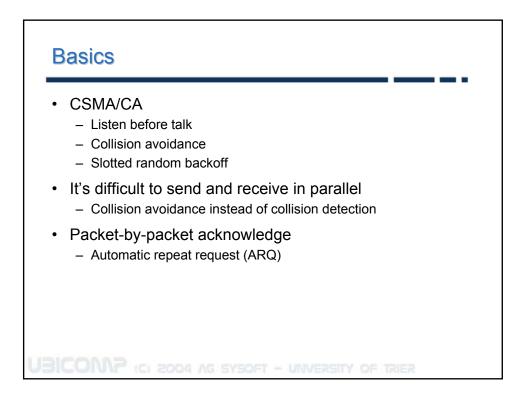
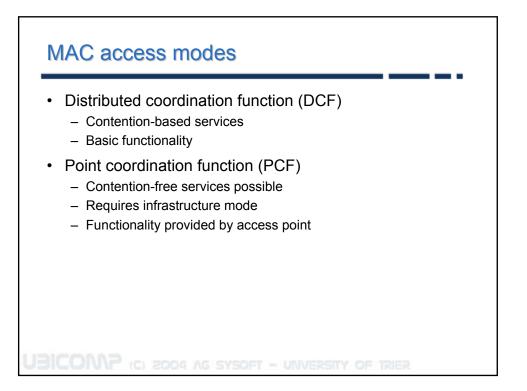
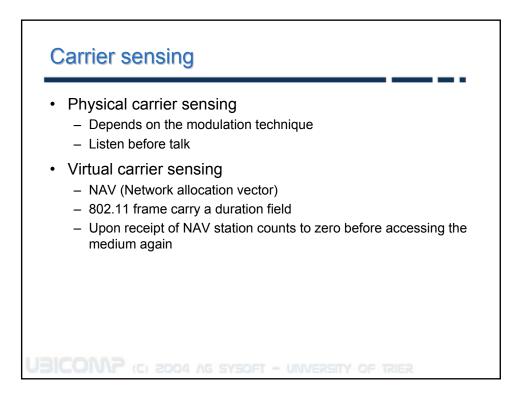


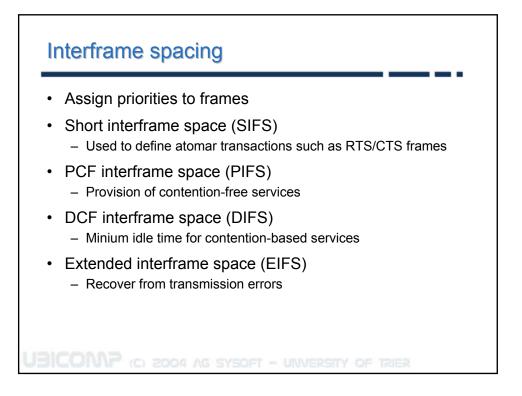
Chipset Vendor	WLAN Mode	Idle (Sleep)	TCP Uplink (Tx)	TCP Downlink (Rx)	Metric
Atheros	802.11a	0.75 W	2.48 J/MB	2.56 J/MB	3.16 J/MB
Cisco	802.11a	1.04 W	2.48 J/MB	2.88 J/MB	3.69 J/MB
Intersil	802.11a	2.06 W	2.40 J/MB	2.48 J/MB	4.09 J/MB
Atheros	802.11g	0.92 W	3.20 J/MB	3.20 J/MB	4.02 J/MB
Broadcom	802.11g	1.78 W	2.64 J/MB	3.28 J/MB	4.79 J/MB
Intersil	802.11g	1.31 W	2.48 J/MB	3.04 J/MB	4.12 J/MB
Agere	802.11b	0.14 W	15.28 J/MB	17.28 J/MB	17.14 J/MB
Atheros	802.11b	0.87 W	8.40 J/MB	8.08 J/MB	10.94 J/MB
Intersil	802.11b	0.46 W	16.40 J/MB	14.88 J/MB	17.28 J/MB
Not intended to b	e an exhaustive su	vey of WLAN cards.		Mc	Farland and Wor

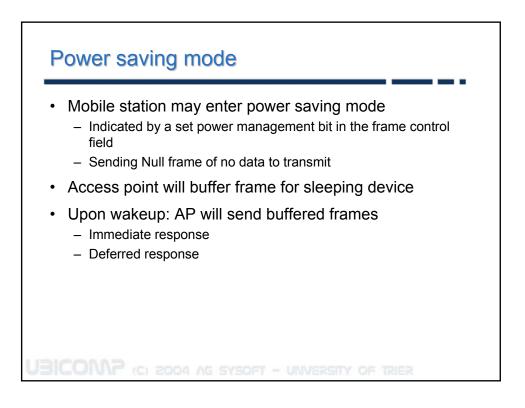


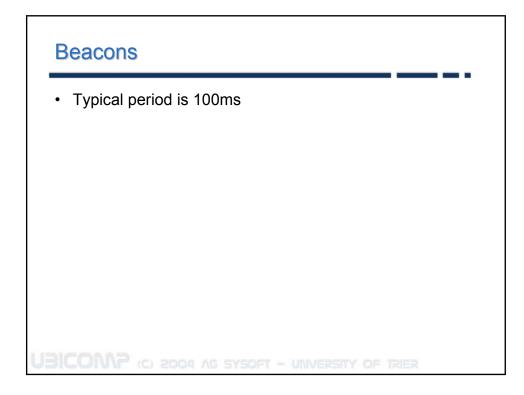


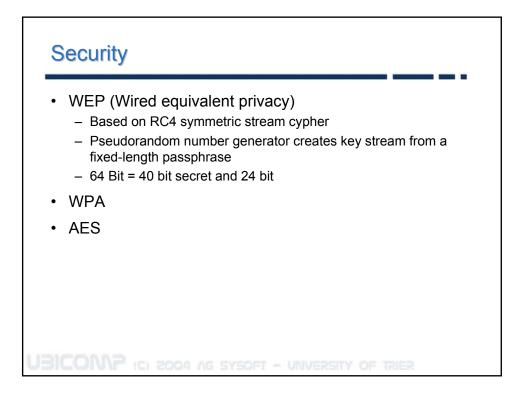




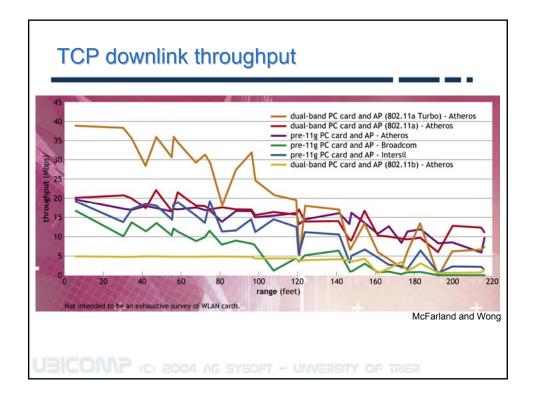








WLAN Mode	Maximum Link Rate	Maximum UDP Rate	Maximum TCP Rate	System Capacity	
				# of Channels	Maximum UDP Capacity
802.11a Turbo	108 Mbps	55.1 Mbps	42.7 Mbps	6	330.6 Mbps
802.11a	54 Mbps	30.7 Mbps	24.0 Mbps	13	399.1 Mbps
802.11g (11g-only)	54 Mbps	30.7 Mbps	24.0 Mbps	3	92.1 Mbps
802.11g (with 11b present and idle)	54 Mbps	19.6 Mbps	14.5 Mbps	3	58.8 Mbps
802.11g (with 11b present and active)	54 Mbps	11.2 Mbps	9.2 Mbps	3	33.6 Mbps
802.11b	11 Mbps	7.1 Mbps	6.1 Mbps	3	21.3 Mbps
				McFa	rland and Won



References

- B. McFarland, M. Wong <u>The Family Dynamics of 802.11</u> ACM Queue, May 2003, pp. 18-38
- M.S. Gast 802.11 Wireless Networks – The definitive guide O'Reilly, 2002

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