802.1x - IEEE Standard Port Based Authentication

Progression:

- In production since May 19, 2003.
- Over 40 APs servicing the Marriott Library.
- Over 30 buildings pledged to 802.1x.
- Site license now includes Pocket PC 2002/2003 supplicant (currently in beta).
- 802.11a, 802.11b, 802.11g Wireless
- Per-user keys which rotate @ 90 seconds. (WEP can be cracked in about 10 minutes with large volumes of traffic).
- Apple's Mac OS X Panther provides a built-in supplicant.
- Vivato Panel will be used to provide wireless between the Union and Marriott Library
- Departments can manage their own users.

Campus Authentication Map

Campus Benefits:

- Campus wide site license for Windows, Mac OS X (Jaguar), Pocket PC 2002/2003 clients.
- Campus wide site license for Radiator RADIUS server.

Radiator:

Supported Operating Systems

Any Unix including Linux (Red Hat, Debian, Mandrake, SuSE, etc on Intel, Sparc, PPC, HP-PA etc), Solaris (Intel and Sparc), FreeBSD, NetBSD, SunOS, AIX, IRIX, SCO Open Server, Digital, HP-UX, etc

Windows 95, 98, NT, 2000, ME, XP, 2003, etc.

Mac OS9, Mac OS X.

VMS

Problems:
• Jaguar was a mess.
  Meetinghouse DHCP problem.
  Apple association problem.
• Windows XP client has a few remaining issues.
  GINA Problem (Fixed in next version).
  WZC gets disabled. (Not to be fixed).

**Future Direction:**

• 802.1aa
• Roaming Issues for Campus
• Future security protocols (WPA, 802.11i, etc...)

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