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Wireless LAN Adoption

A Quantitative Analysis

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Research Overview

- This research is part of a larger annual study of network cabling in enterprises
 - Examines connection technologies for
 - Campus backbones
 - Vertical and Horizontal networks
- Over the past two years, companies have increasingly deployed wireless networks as part of their overall network infrastructure

Sample Demographics

- Based on a survey of US organizations conducted June 2001
 - Sample size N=129
 - All respondents have management responsibility for data networks at their organizations
 - Sample represents
 - Companies from 40 states plus DC
 - Companies from broad range of industries
 - Distribution of medium and large enterprises

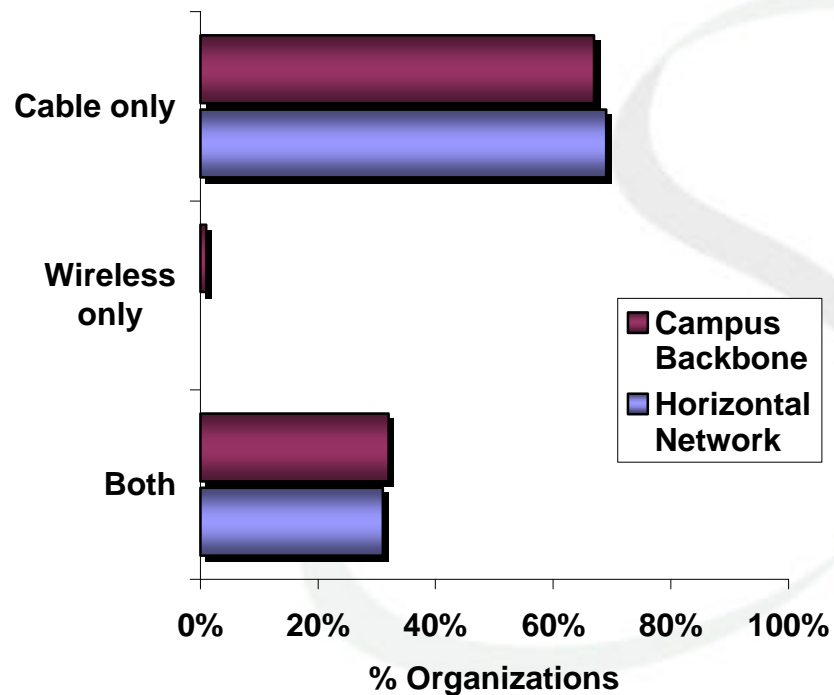
Supply Drivers

- Key developments that are contributing to WLAN market acceptance
 - Standards have converged
 - 802.11 standard is stable and widely supported by equipment vendors
 - Technology has matured
 - Issues of security, reliability, speed, and range have been addressed
 - Key vendors have added credibility
 - 3Com, Alcatel, Cisco, among others are shipping product
 - Competition has reduced prices
 - \$600 for LAN access points, \$200 for NICs

Demand Drivers

- Changes in workplace practices driving demand
 - Employees equipped with laptops and PDAs need network access
 - LAN-related moves/adds/changes are costly and disruptive
 - Awareness of WLAN technology increasing
 - WLANs are increasingly seen as a viable alternative to wired LANs

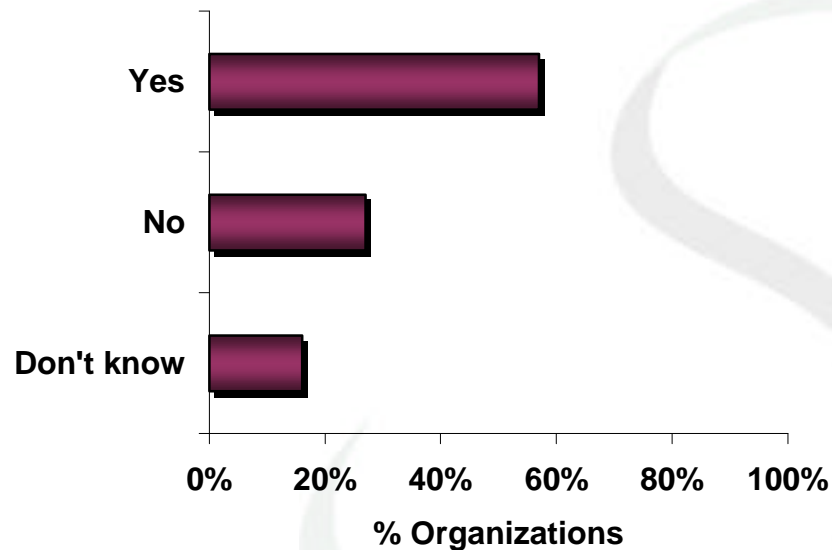
Current Use of Wireless LANs



- Over a third of companies with wireless LANS use them for *both* horizontal and campus networks

Q: Does your campus backbone/horizontal network operate over cable (copper or fiber), over a wireless connection, or both?

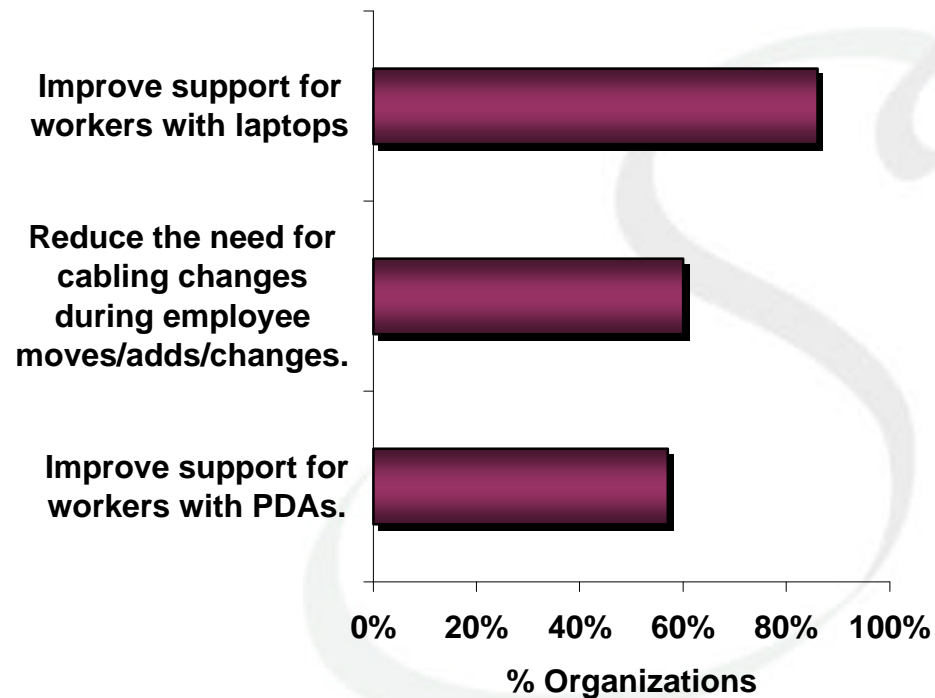
WLAN Installation Plans



Q: Do you have plans to install a wireless LAN in the next two years (regardless of whether or not you already have one)?

- **Almost two thirds of organizations have plans to install WLANs in next two years**
 - **Large companies more likely to be planning WLANs**
- **Nearly half of all companies expect to use wireless LANs as commonly as wired LANs by end of 2003**

WLAN Drivers



- Trends towards increasing worker mobility is a significant driver
 - Analysts often overlook cabling costs as a driver of network technologies

Q: My organization is installing a wireless LAN/expanding its wireless LAN to . . .

Bluetooth

- Until very recently, Bluetooth has
 - Not been actively marketed by vendors
 - Not been receiving good publicity from industry observers
 - Over past several months Bluetooth has been starting to receive some favorable press
- In spite of this, a third of organizations are likely to support Bluetooth device on their corporate networks
 - Less than 10% are “very likely”

Important Wireless LAN Trends

1. Two thirds of companies expect to be using wireless LANs by 2003
 - Nearly half of them expect to be using wireless LANs as commonly as wired IANS
2. Wireless LANs are expected to enhance rather than replace wired LANs
 - Allows flexible connectivity for workers with laptops and PDAs
 - Reduces cost of cabling move/add/changes
3. Bluetooth has some support in the market, but many are still unfamiliar with this technology

For more information

- For information on this and other Sage Research studies, including the Cabling 2001 Report, contact

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