



IBM Client Security

Secure Wireless Solutions
are Here Today



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Personal Computing Division

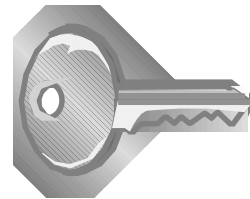
IBM Client Security

Enabling Wireless e-business

Mobile PC



ThinkPad®



Flat Panel PC

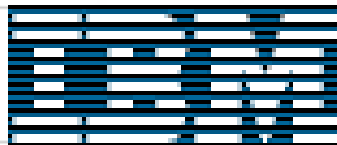


NetVista

Requires a “Trusted Platform”



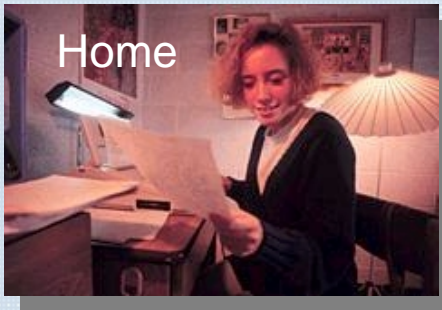
ThinkPad®



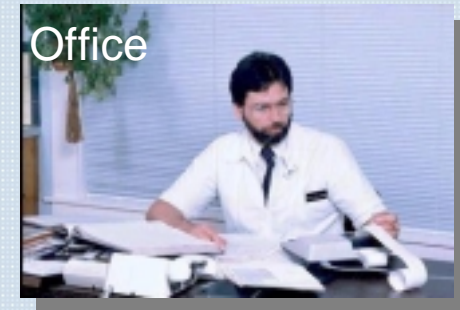
NetVista



Today's Situation: Client Security Challenges



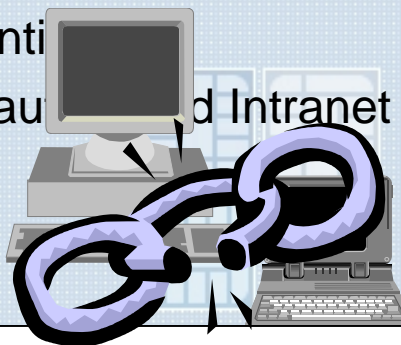
Home



Office

Password Proliferation

- Tracking/changing multiple passwords
- Convenience vs. Security
- Identity Theft
- Unauthorized Intranet access



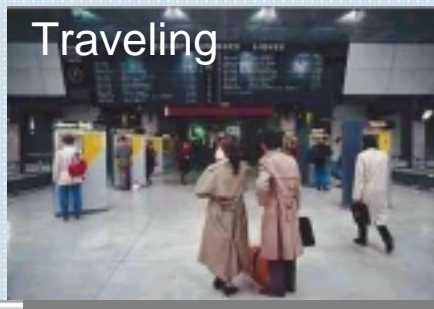
The Client is the Weakest Link !

Increased Mobility

- Notebook theft
- Loss of asset and local data
- More remote access

Growing Demand for Wireless Connectivity

- Inadequate protection
- Transmission theft
- Content compromised /altered

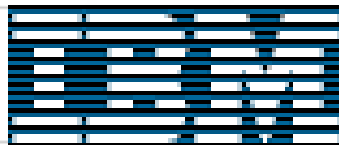


Traveling





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Key Elements of Client Security

Secure Communications

- Authentication/Encryption
- Secure tunneling

Data Protection

- Encryption
- Backup / Restore

External Attacks

- Firewall
- Anti-virus
- Recovery

Access Control

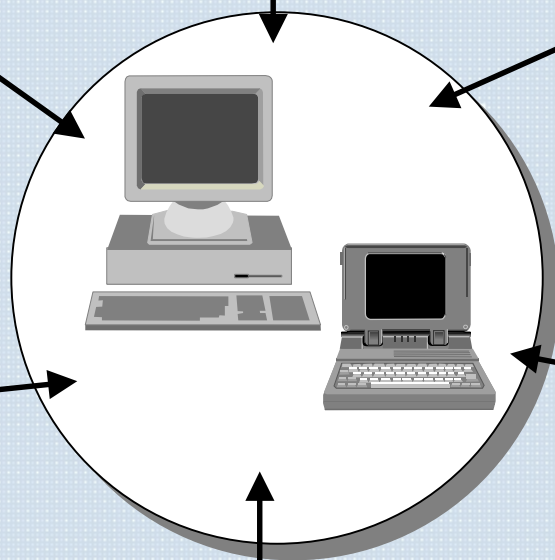
- Authentication
- Authorization
- Administration

Internal Attacks

- Unauthorized Use

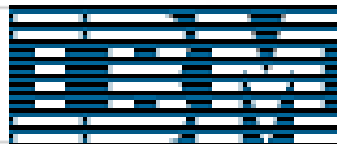
Physical Asset Security

- Prevent theft
- Asset tracking





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IBM's Solutions: 9 October 2001

Integrated Communications

- Modem
- Ethernet
- WLAN (802.11b)
- Bluetooth
- Superior antenna design

Access Connections

- Connection Wizard/Manager

Physical Security

- Cable lock
- Asset ID

Password Protection

- Power-on
- Hard drive
- Supervisor

IBM Embedded Security Subsystem (ESS)

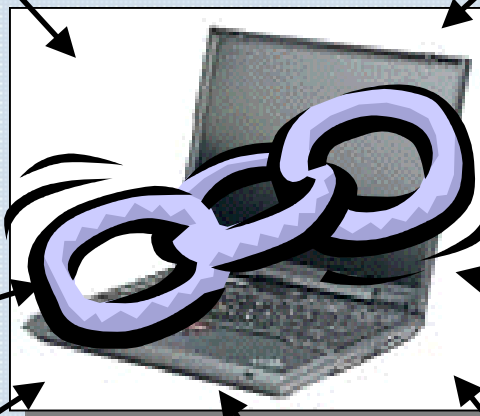
- Processor and Memory
- Client Security Software

Rapid Restore PC

- Backup/Restore/Recover software

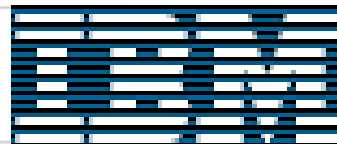
Standards Compliance

- TCPA
- Common Criteria Certified





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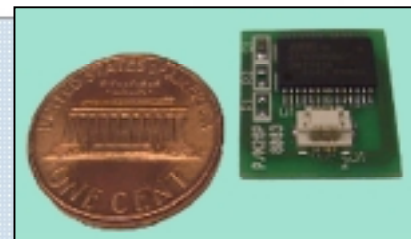
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Embedded Security Subsystem (ESS)

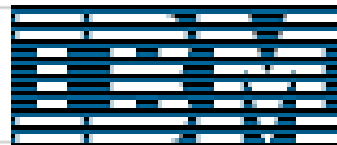
Benefits

- Low cost Hardware-based Security Solution
- Secure storage of Private Keys and Credentials
- Provides secure support of Public Key Infrastructure (PKI)
- Strong User Authentication with support for 3rd party
 - Finger-print and Proximity badges
- Ensures e-mail Integrity & Confidential
- File encryption capability for secure data storage
- Support for Industry Standard Cryptographic Interfaces
 - MSCAPI, PKCS#11 and popular applications
- Improved VPN log-on: Eliminates the need for RSA key fob
- Based on the Trusted Computing Platform Alliance Standard





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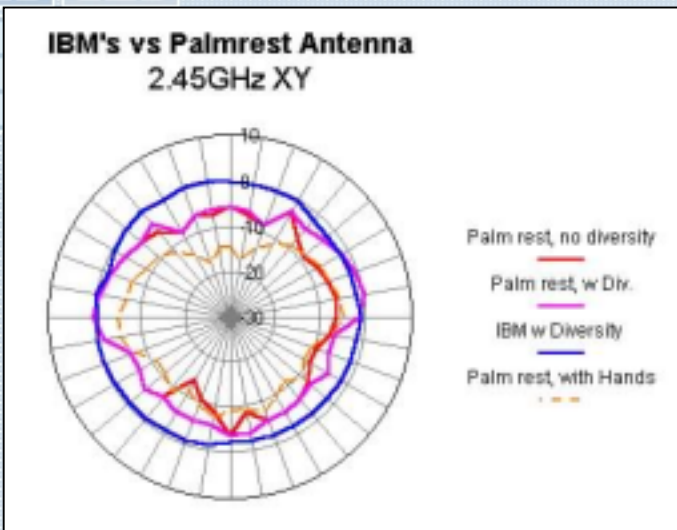
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Wireless LAN IEEE 802.11b Integration

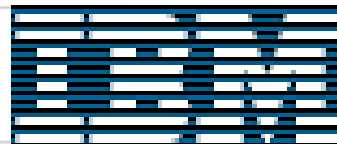
Benefits

- Save real \$\$\$\$ by not having to string cable throughout office
- Supports IEEE 802.1x Port-based Security Standard
- Superior Antenna Positioning to provide better Performance
- Access Connections for convenient connection switching
- Low Profile PCI adapter card option for NetVista





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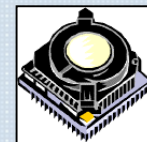
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IBM Rapid Restore PC

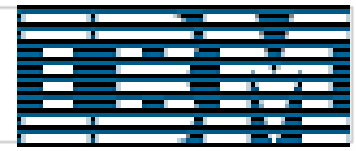
Benefits

- Save real \$\$\$\$ by avoiding calls to help center for “lost” data!!!
- User application and data snapshot
 - Protection from computer data disasters and virus attacks
 - “Turn back the clock” even when system won’t boot
- Quick Backups of the entire Primary Partition on a regularly scheduled or as-needed basis (Attended or Unattended)
- Better Protection of the Microsoft Windows OS:
 - Important Data Files, Registry Settings, Desktop Settings and Internet files
 - Productivity Files are all protected
- Offers a choice of Backup Storage
 - Locked partition on your hard drive or optional second HDD
 - User-created bootable CD-R





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Today's Problem and Solution

The Problem: Many things to carry, lose or damage



Which Adapter
Do I use?



Do I have my
back-up copies?

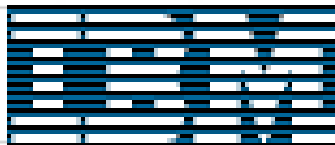


Do I have my
Authentication Devices ?





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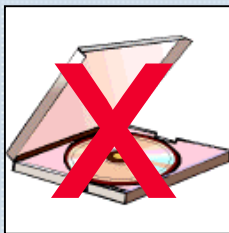


Today's Problem and Solution

The IBM Solution: 9 October 2001



Integrated adapters



Rapid Restore PC



Embedded Security Subsystem



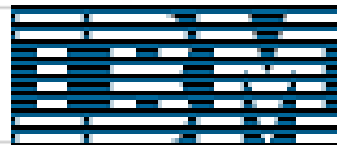
- Trusted Platform
- Security with Convenience



Integration



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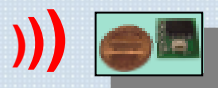
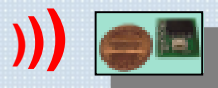


NetVista



New IBM ThinkPads

4Q'01



Degree of Mobility ↑

X

Xtreme Portability

Extra-light, extra-small ultraportable

3.4lbs | 12" Sleek Design

T

Thin and Light for Travel

Perfect balance of performance and portability

4.7lbs | 14" Balanced Performer

R

Essential Mobility

Best blend of portability and essential features

5.5lbs | 14" With all the Essentials



A

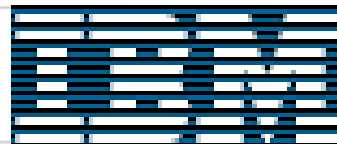
Alternative to Desktop

High-performance desktop alternatives with





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New IBM NetVistas

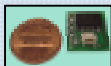
4Q'01



M

Maximum performance with enhanced manageability and security features

- ✓ Workhorse global models
- ✓ Stable platform and software images
- ✓ Three form factors to fit your needs



A

Best blend of performance and essential features

- ✓ Workhorse entry models
- ✓ Stable platform and software images
- ✓ Three form factors to fit your needs



X

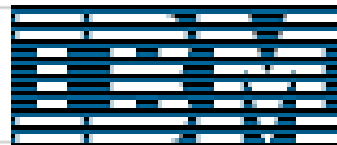
Extraordinary, space-saving design with high performance

- ✓ Workhorse global models
- ✓ Stable platform and software images





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Team IBM: Putting it all Together



Personal Client Division

Delivering

Trusted Platforms

- Integrated WLAN
- ESS
- Access Connections
- Rapid Restore PC

Lotus

Mobile & Wireless Solutions

Applications



IBM Research



Asset Management

Tools

Pervasive Computing

Wherever,
Whenever,
However

WebSphere Everyplace Suite

Middleware

IBM Global Services

Expert advice



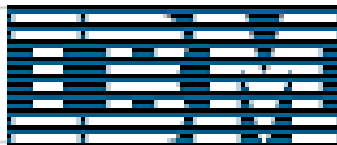
Services

Wireless e-business





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IBM's Trusted Computing Platforms

Security Without Sacrificing Convenience

Protect

- Data from Theft and Corruption
- Systems from Security Breaches, Hackers and Viruses
- Keys and User Credentials used for PKI Operations
- Wireless Communications



Ensure

- Only Authorized Persons have access to Corporate Networks
- Secure and Confidential e-mail
- Convenience

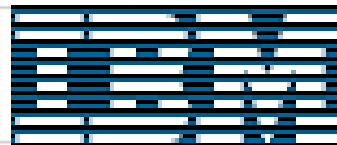
Comply

- Industry Standards
- International Organizations





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Demo Proof Points



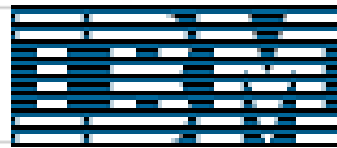
The day in the Life of Jean Luc Picard, CEO Enterprise Manufacturing Ltd.

Jean Luc starts his day in the office with his ThinkPad:

- Uses Proximity alert and finger print authentication to gain access
- Sends/receives secure e-mail using the IBM ESS, 802.11b WLAN and 802.1x security standard
- Leaves for a business trip and while at the airport securely connects back to the corporate Intranet using a VPN, augmented with the IBM ESS
- During his business meeting at his destination, he quietly, and securely, connects back to his Intranet using his Bluetooth enabled ThinkPad and Bluetooth enabled Ericsson cell-phone



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IBM Access Connections

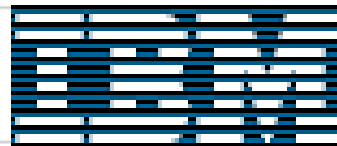
Benefits

- Allows Users to Manage Multiple Connections
 - Wired and Wireless
- Pre-loaded Client Application which is Accessed from System Tray
- One-time set-up of Multiple “Profiles”
- Easy to Switch between Connections
- Automatic Un-docking when going from Wired to Wireless Profile





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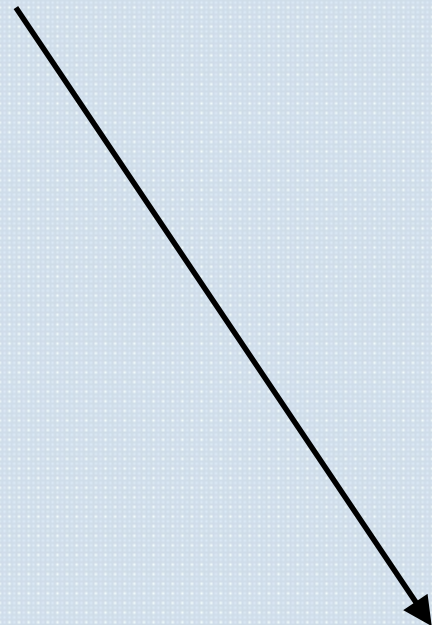


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IBM Access Connections

Once the Profiles have been created, simply click on the Access Connection icon in the System Tray and select your location

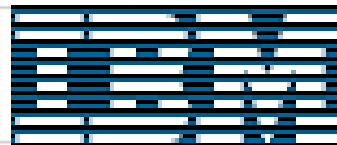


- Home - Wireless
 - Office - Token Ring
 - Office - Wireless
 - Airport / Hotel / Public Places
-
- Menu text size
-
- Launch IBM Access Connections**
- Manage Location Profiles





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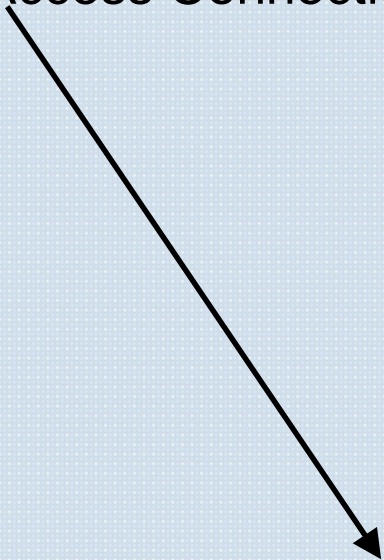


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IBM Access Connections

For instant connection status, simply move the pointer over the Access Connections ICON which pops up the status window

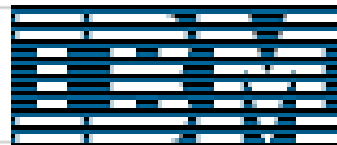


Office - Token Ring
Status: Enabled, Operational
Speed: 16.0 Mbps
IP Address: 9.37.126.139





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PCD's Wireless Options Portfolio

IBM High Rate Wireless LAN PC Card 128-bit



IBM High Rate Wireless LAN PCI Adapter (Low Profile Enabled).....



IBM High Rate Wireless LAN Access Point 500



IBM High Rate Wireless Gateway



Bluetooth PC Card from IBM

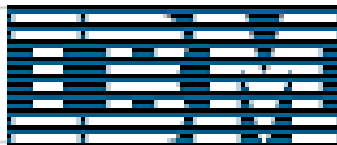


Bluetooth UltraPort Adapter from IBM





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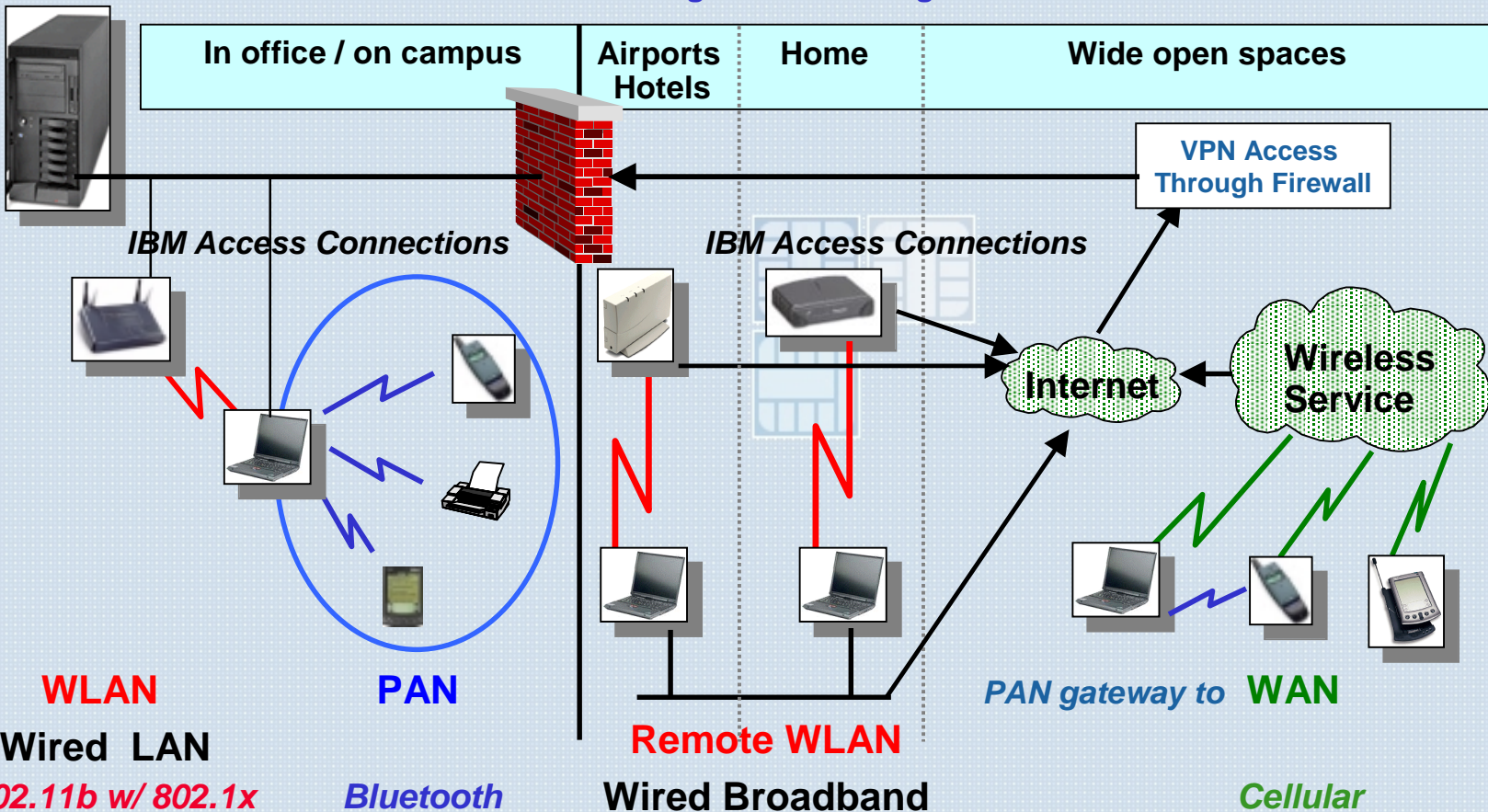


Solving Customer Problems: Team IBM

PvC: WebSphere Everyplace / Tivoli: Manage.Anything.Anywhere / Lotus: Applications / PCD: Secure Clients

IGS: Making it all Work Together

In office / on campus Airports Hotels Home Wide open spaces



WLAN
Wired LAN
802.11b w/ 802.1x

PAN
Bluetooth

Remote WLAN
Wired Broadband

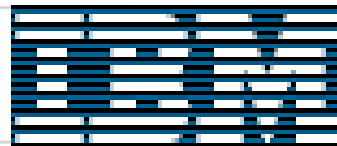
PAN gateway to WAN
Cellular

Wireless e-business





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IBM Access Connections

IBM Access Connections

IBM Access Connections

Network Actions Options Help

Current location: Office - Wireless

Office - Wireless

Signal Strength 40%

Adapter Speed 11 Mbps

Adapter type	Wireless LAN
Adapter status	Enabled
Connection status	Operational
IP Address	192.168.1.110

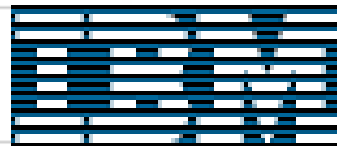
More details

Choose Location:

Office - Wireless



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IBM Access Connections

Connection Wizard Manage Location Profiles

Select a location, then click Apply. Click Create to setup a new location profile, or click Copy to create a new location profile based on an existing location.

Location Profiles	Profile name
Airport/Hotel/Public Wireless	Office - Wireless
Home - Wireless	<input type="checkbox"/> Adapter details
Office - Token Ring	<input type="checkbox"/> TCP/IP settings
Office - Wireless	<input type="checkbox"/> Wireless settings
test	<input type="checkbox"/> Internet settings
	<input type="checkbox"/> Options

Apply Edit... Copy... Delete Create > Options ▾

Close Help

Wireless e-business