

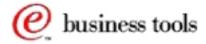
# NetVista N2200e Overview

### Thin Client Express



### **T3 Presentation**

May 30, 2000





# Range of N2200 Offerings

# Extend HW investment, SW transition options



#### **IBM NetVista N2200**

- X86 legacy-free system
- Supports multiple software environments

#### **N2200 Zero Footprint brackets**

- For those who value space
- Brackets attach N2200 to IBM
   T55 flat panel screen



### N2200w WBT Standard 1.5

- For those who want Microsoft thin client software
- Packaged solution
- Local WBT IE 4 (3Q)
- Local emulators
- ◆ Transition to TCM, Linux

### N2200e Thin Client Express

- For those who want IBM thin client SW with rapid set-up, deployment
- Packaged solution
- Local Netscape 4.5 (3Q)
- Local emulators
- Transition to TCM, Linux



#### **N2200 TCM V2R1**

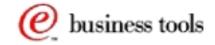
- For those who want full function clients with full server management SW
- Local Netscape 4.5
- Local emulators
- Local JVM
- Transition to Linux



# N2200L Thin Client for Linux

- For those who want open source, SW downloads
- IBM toolkit, instructions on Web
- IBM moderates Web discussion group
- Transition to / from TCM







# Available Now . . . Built for the Future

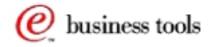


# IBM NetVista N2200e Thin Client Express

- ► Proven thin client hardware N2200 (N2800 3Q)
  - 32 MB compact flash room for browser
  - TCM Server software not required
  - Keyboard and mouse
  - ◆ 3 year warranty
  - Ethernet connectivity
- **►** Express client software
  - ◆ ICA 3.0++ for Windows access
  - ◆ Terminal emulators ✓ 3270, 5250, VTxxx
  - Netscape 4.5 browser (3Q)
- **►** Systems management
- ► Transition options
  - Entry to Thin Client Manager
  - Thin Client for Linux

An exclusive vs. competition







# N2200e Thin Client Express



### ► What is Thin Client Express?

- ◆ N2200 with pre-programmed 32MB Compact Flash
  - √ Thin Client Manager Desktop, ICA 1.8, emulators, Netscape 4.5 (3Q)
  - √ Client Configuration Tool
- V2R1 PTF6 code level

### ► Why Express?

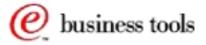
- Easy to set up
  - √ Thin Client Manager (TCM) server technology not required
  - √ Flash based boot
  - ✓ Peer boot boots many thin clients that do not have flash cards
  - Minutes from opening box until up and running applications

### Simple to manage

- ✓ No TCM required, very simple local configuration tool provided on client
- ✓ No-charge Utilities available for flash and remote operation management
- ✓ Update Thin Client Express in customer locations

### Room to grow

- ✓ Rapid entry into NetVista thin clients
- ✓ Seamless, no charge transition to full server-based environment
- ✓ Applications included are functionally equivalent to those found in TCM V2R1 PTF6
- ✓ Browser and dialer support in 3Q 2000 (via PTF and new from factory)





### Thin Client Utilities

# NetVista

### Simple to manage

- ► Two "as-is," no-charge utilities available
  - Thin Client Express Service Utility (5648-D83)
    - √ Contains latest complete client flash image
    - Client has code to pull and reflash from these files
  - Thin Client Manager Operations Utility (5648-D84)
    - ✓ Set of tools for remote operations for N2200e, N2200, and N2800
    - ✓ N2200, N2200e, N2800: client lockdown, wake on LAN, remote reboot
    - ✓ N2200e: clone configuration, force flash update, force authentication to server
- ► Available as Web download or on single orderable CD
  - www.ibm.com/nc, select software for V2R1
  - NetVista Thin Client Utilities CD -- GEMS order number 11K7686
- ► PC Server or desktop with
  - Windows NT 4.0 or Windows NT 4.0 TSE
  - Windows 2000 (Beta)
- ► Do not need to be available on network during normal operation
  - No need for utilities to be permanently resident on network server
  - Can be loaded on laptop and attached to network during updates
- **►** English only





# Update Thin Client Express in customer locations NetVista



- ► Client Side Pull (Thin Client Express Service Utility)
  - Latest image available on web or CD
  - Download update service to file on NT
  - Install on NT workstation or server
  - On client, select configuration tool's software update, request flash update

- OR -

► Management Service Push (Thin Client **Manager Operations Utility)** 

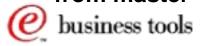
 Install Java based management tool from web or CD on NT workstation or server

 NT workstation or server initiates client pull

- OR -

### ► Update via peer

- Assuming Boot Monitor intact
- Configure peer to reset flash from master







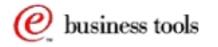
# Thin Client Express Use Scenario 1

# NetVista

### Standalone mode

- ► For small deployments or where each client requires unique customization
- ► No server
- ► Client configures desktop
  - Uses configuration tool shipped in client







# Thin Client Express Use Scenario 2

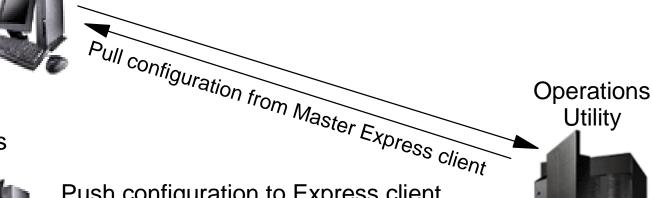


# Server-administered configurations

- ► For large deployments or where Express clients require group-specific desktops
- ► Thin Client Operations Utility on server
- ► SNMP Management capability
- ► One "master" client configures multiple desktops to be used by other Express clients

### "Master" Express client

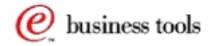
- Create desktop
- Have Operations Utility pull configuration to the Server
- Repeat until all desktops have been created
- Any number of Express Clients





Push configuration to Express client

Express client



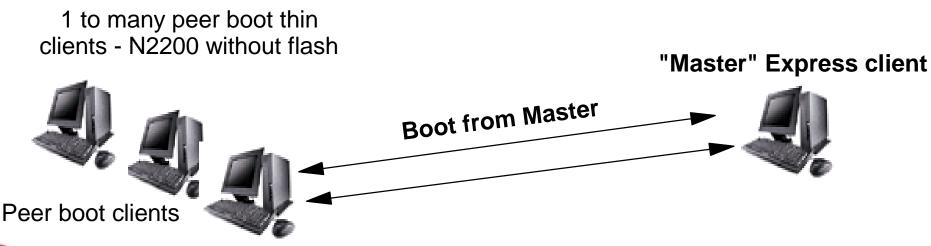


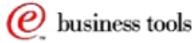
# Thin Client Express Use Scenario 3



### Peer boot clients without server

- ► For deployments where peer boot clients with no flash card will use the Express client software, configuration
  - Spread cost of Express client across multiple peers without flash cards
- ► No server
- ► "Master" Express client configures a desktop to be used by other peer boot clients
- ► Peers share all characteristics of Master client
  - Preferences, printer config, language, mouse configuration





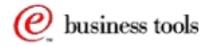


# NetVista

### http://www.ibm.com/nc

- IBM NetVista Thin Client, Thin Client Manager, AS/400, RS/6000, S/390, Netfinity, AIX, OS/2 are trademarks of IBM **Corporation**
- UNIX is a registered trademark in the United States and other countries licensed exclusively through X/Open Limited
- Java is a trademark of Sun Microsystems, Inc.
- Netscape and the Netscape logo are trademarks of **Netscape Communications Corporation**
- Windows, Windows NT, Windows 2000 are trademarks of Microsoft Corporation
- Other trademarks are owned by their respective companies



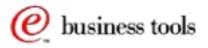






► Image deleted to reduce file size

- Configure TCP/IP, Display, and Keyboard
- 2. Specify one application or configure a set of applications on a full desktop with launch bar
- 3. Begin using workstation

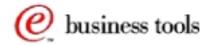




# Preloaded on Thin Client Express

► Image deleted to reduce file size

- 1 Offers rapid initial configuration
- 2. Customize Desktop appearance
  - Single application kiosk configuration
  - Complete desktop, launch bar, and auto start options
- Software update Request client flash update from remote update server





# Functional Comparison



- Draft

Function	TCM V2R1	Express	WBT-Generic	IBM WBT
Client functions				
ICA Remote Application Manager	x	x	Less Function	Less Function
5250, 3270, VTxx Emulation	x	x	Less Function	Less Function
Netscape 4.5	х	3Q00 No Java		
Client Configuration Tool	x (PTF 6)	Х	x	X
Management				
*Easy* field update	X	X		
Efficient cloning technology	N/A	x		
WAN Friendly Update	X	х		
Other OS Support				
Kiosk Mode	x	х		
Full Desktop Kiosk Mode		х		
Windowed Environment	X	X		
Convert to other OS	N/A	Linux	No	No
Convert to V2R1 boot	N/A	Yes	No	Yes

