



IBM NetVista N2200e, Thin Client Express – the Quick, Easy Way to Deploy Thin-Clients

Overview

Network Station™ Series 2200 is now the NetVista™ N2200 thin client. Network Station Series 2800 is now the NetVista N2800 thin client. Network Station Manager V2R1 is now NetVista Thin Client Manager V2R1.

NetVista N2200e, Thin Client Express offers a fast, simple way to access applications on Windows™ 2000, Windows NT™ Terminal Server Edition 4.0, and other server-based applications.

NetVista N2200e, Thin Client Express, a packaged hardware and software solution, includes NetVista thin client with essential Thin Client Manager V2R1 functions on a CompactFlash card preinstalled on the hardware.

Thin Client Express includes:

- ICA client
- Emulators
- Basic V2R1 desktop functions
- Streamlined setup process
- Local boot from flash
- Separate utility programs for flash service and operations management¹

Product Preview: IBM intends to make a native Netscape Navigator 4.5 browser and remote dialer support available for the NetVista N2200e, Thin Client Express in 3Q00.

Take advantage of these thin client benefits:

- Fast and flexible application deployment
- Low total cost of ownership

Position yourself for growth:

- Migrate to full Thin Client Manager V2R1 capability with no disruption to your operation or added cost

Attractive for customers who want the added capabilities of strong, central server-based management of V2R1, but also need:

- Quick start-up (serverless boot) — pilot projects, for example
- Simple thin client installs from a remote location
 - No NetVista Thin Client Manager V2R1 boot server required
- Kiosk Operation

¹ The NetVista N2200, Thin Client Express Service Utility and NetVista Thin Client Manager Operations Utility are available at no charge either on a CD or for download from the Web. To obtain the no-charge CD: Refer to Software Announcement 200-157, dated May 30, 2000, or visit: <http://www.pc.ibm.com/ww/netvista/thinclient>

Key Prerequisites

- Ethernet LAN connection
- Server with NT 4.0 Workstation or NT 4.0 Server or NT 4.0 TSE to run NetVista N2200e, Thin Client Express Service Utility and NetVista Thin Client Manager Operations Utility



At a Glance

- Essential NetVista Thin Client Manager V2R1 function preloaded on integrated CompactFlash
- Simplified setup screens
- Fast local boot
- Ethernet Model N2200e
- Seamless growth path to full NetVista Thin Client Manager V2R1 server-based environment with no additional charge
- SystemXtra™ financing

Planned Availability Date

June 16, 2000

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: <http://www.ibm.com>.

Description

With an integrated CompactFlash card, NetVista N2200e, Thin Client Express offers many functions and capabilities available on the standard N2200 NetVista Thin Client model. The difference is that an Express thin client can boot locally, without requiring a NetVista Thin Client Manager V2R1 boot server.

NetVista N2200e Hardware

- Processor: 233 MHz MMX™ enhanced processor
- Main Memory 32 MB
 - Features 32 MB, 64 MB, and 128 MB Memory Modules
 - 32-288 MB Capacity Total
 - One memory slot (customer installed)
- CompactFlash 32 MB, preloaded with a subset of NetVista Thin Client Manager V2R1
- Input Devices
 - Keyboard; USB (20 NLV keyboards), mouse plugs into keyboard
- Stealth black exterior
- Connectivity
 - 10/100 Ethernet
- Audio
 - 16-bit audio
 - Internal speaker
 - Stereo headphone jack
 - Mono microphone jack
- Video
 - 1024 x 768 x 16-bit @ 75 Hz
 - 1280 x 1024 x 8-bit @ 60 Hz
- I/O: Parallel (USB to parallel converter)
- Universal Serial Bus: Two host connectors
 - One committed to keyboard/mouse combination
 - One available for direct connection or via cable adapter to serial or parallel devices except to a hub

NetVista N2200e Software

For exclusive use with any NetVista thin client except the N2200w.

- ICA 1.8
- Emulators
 - 3270
 - 5250
 - VTxxx
- NLS availability same as NetVista Thin Client Manager V2R1
 - Three flash images (NLS1, NLS2, and NLS3) cover all available translations
- No Server Software required
 - Software boot monitor selection to boot from NetVista Thin Client Manager V2R1 on LAN
- Conversion capability:
 - Boot from NetVista Thin Client Manager V2R1 server via boot monitor selection

Allows booting from server-based Thin Client Manager V2R1 through user-configured settings or removal of the CompactFlash card.

- Fix support: NetVista N2200e, Thin Client Express Service Utilities for V2R1. To obtain the no-charge CD:
 - Refer to Software Announcement 200-157, dated May 30, 2000,
 - Or visit:

<http://www.pc.ibm.com/ww/netvista/thinclient>

SystemXtra

SystemXtra offers service, support, and lease options to help qualified customers keep their PCs current with little or no money up front.

Benefits: SystemXtra brings together the best of IBM and our Business Partners to deliver affordable solutions to businesses of all sizes. Choose from a combination of offerings to find the ones that work best for you.

More Information

- Business Partners:
 - 800-426-7272, option 3
- Customers:
 - 800-426-7255, extension 4749
- Web site:

<http://www.ibm.com/pc/us/systemxtra>

Note: SystemXtra is available to commercial and state and local government customers with valid credit. Eligibility for the Technology Exchange Option is based on minimum qualifying levels of IBM Personal Systems Group hardware over a 12-month period. Program is subject to change without notice. Additional terms, conditions, limitations, and fees may apply. IBM Global Financing offerings are made available through IBM Credit Corporation in the U.S. and other IBM subsidiaries and divisions worldwide.

Year 2000

This product is Year 2000 ready. When used in accordance with its associated documentation, it is capable of correctly processing, providing, and receiving date data within and between the twentieth and twenty-first centuries, provided all products (for example, hardware, software, and firmware) used with the product properly exchange accurate date data with it.

This statement of Year-2000-ready status applies only to the IBM hardware content and does not apply to any software (system software or application software) content that may be pre-installed or otherwise provided by IBM with the purchase of the IBM hardware product. For non-IBM products, whether or not obtained from IBM, consult directly with the third-party product developer for information about the Year 2000 transition. In some cases IBM may pass along information that third parties have provided us about the status of their products.

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Product Positioning

IBM has launched its new NetVista family of clients that span the spectrum from Internet appliance, through thin client, to desktop devices. Several of IBM's thin client offerings, formerly known as Network Station (hardware) and Network Station Manager (software) are now part of the NetVista family. New names reflect that alliance.

The Network Stations Series 2200 and 2800 are now called NetVista N2200 and N2800. They are referred to as NetVista thin clients. Network Station Manager V2R1 is now known as NetVista Thin Client Manager V2R1, which consists of code that runs on the NetVista thin client and code that runs in a supported server environment (Windows NT, OS/400®, and AIX®).

The Linux client for Network Station is now referred to as the NetVista Thin Client for Linux. Refer to Hardware Announcement 100-042, dated February 17, 2000,

In April 2000, IBM announced an addition to the NetVista family — NetVista N2200w, the NetVista Thin Client for Windows™-based Terminal Standard 1.5. Refer to Software Announcement 100-104, dated April 18, 2000,

The NetVista N2200e — the NetVista Thin Client Express — and two software utilities are announced:

- Refer to Software Announcement 200-157, dated May 30, 2000
- Or visit:
 - NetVista N2200e, Thin Client Express Service Utility
 - NetVista N2200e, Thin Client Manager Operations Utility

New software kits and simplified Proofs of Entitlement (PoEs) for NetVista Thin Client Manager V2 complete the announcement.

Positioned primarily in the **ultra-thin** end of the spectrum, the NetVista Thin Client Express focuses on access to Windows applications, and server-based applications with the available local emulators.

As basic local browser capability is added to the product offering, this focus will reach the **very-thin** browser environment as well.

The Thin Client Express solution allows maximum growth by enabling seamless, no-charge growth to the capabilities of a full Thin Client Manager, server-based management environment.

If you require enhanced local application execution (for example, full browser/JVM) and additional system management function, you should consider the NetVista Thin Client Manager V2R1 offering.

Reference Information

- NetVista Thin Client Manager V2R1 Revised Kits and PoE

Refer to Software Announcement 200-157, dated May 30, 2000.

Trademarks

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MMX is a trademark of Intel Corporation.

Windows NT and Windows are trademarks of Microsoft Corporation.

Other company, product, and service names may be trademarks or service marks of others.



IBM US Announcement Supplemental Information

May 30, 2000

Publications

Quick Setup for N2200e Thin Client Express — Type 8363 pamphlet for quickly setting up and using your NetVista™ N2200e is shipped with each system (English hardcopy only, product number 9990001). Detailed information is available on the Internet.

NetVista N2200e, Thin Client Express Reference Type 8363 (Model Cxx) (product number 00P2055) contains detailed information on hardware setup, software configuration, installing options and upgrades, and solving problems. The information can also be used by IBM service.

Visit:

<http://www.ibm.com/nc/pubs>

The following seven publications are also shipped with each NetVista Thin Client Express:

- Quick Setup for IBM NetVista Thin Client Type 8363 (one page pamphlet for quickly setting up and using your NetVista N2200e, Thin Client Express, product number 9990001)
- NetVista Safety Information (multilanguage) (SA41-4143, product number 03N3053)
- Licensed Agreement for Machine Code (multilanguage) (product number 85H7820)
- NetVista Hardware Warranty (product number 00P2057)
- Software License Information Document (product number 43L0923)
- IPLA Booklet (product number 04L6067)
- Software Service and Support Document (product number 9990002)

Technical Information

Physical Specifications

- Width: 39 mm (1.6 in)
- Depth: 274 mm (10.8 in)
- Height: 215 mm (8.5 in)
- Weight: 2.3 kg (5.0 lb)

Regulatory Agency Approvals

- C-Tick (Australia)
- CSA C22.2 No. 950 (Canada)
- UL 1950 Third Edition (U.S.)
- GS (Germany)
- CE Mark (Europe)
- NOM-018 (Mexico)

Class B EMC Conformance Classification

- U.S. FCC Class B
- Japan VCCI Class 2
- Europe EN 55022 Class B
- Taiwan BCIQ CNS13438 Class B

The NetVista N2200e, Thin Client Express complies with the requirements of the United States Environmental Protection Agency (EPA) ENERGY STAR Program. The intent of the ENERGY STAR Program is to encourage the production and use of energy-efficient equipment. IBM's participation in the ENERGY STAR Program is voluntary.

To qualify, a desktop computer or monitor must have a power consumption of 30 watts or less after a specified period of inactivity.

Ambient Temperature and Relative Humidity

Measurement	Temperature	Relative Humidity	Max Wet Bulb
Operating	10 to 40°C	8 to 80%	27°C
Power off	10 to 52°C	8 to 80%	27°C
Storage	1 to 60°C	5 to 80%	29°C
Shipping	40 to 60°C	5 to 100%	29°C

Note: The higher level of humidity for shipping allows for condensation but not direct contact with moisture.

- Maximum heat dissipation: 95 Btu/hr
- Electrical power:
 - Maximum: 28 watts
 - Typical: 16 watts
- Noise level: 45 dBa or less or 4.5 Bels

Software Requirements: The NetVista Thin Client Express V2R1 software loaded on the CompactFlash is for use only with NetVista thin clients except the NetVista N2200w.

Planning Information

Cable Orders: No special cables required

Direct Customer Support: The NetVista thin client Web site <http://www.ibm.com/thinclient> provides a wide range of product and technical support information and solutions:

- Product information
- Accessories and upgrades
- Solutions
- Download fixes or new releases (select Software)
- Publications (select Library)
- Frequently Asked Questions or Hints and Tips (select Support)

Our Support page delivers comprehensive, up-to-date technical information for your specific support needs. Categorization for technical information and an "Advanced" search engine allows you easy navigation to

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the information you need. You can personalize your Web site based on filling out a profile. Once your profile is established with IBM, you will be greeted by name and presented targeted information selected specifically to meet your needs.

Telephone installation, usage, and defect support for NetVista N2200e, Thin Client Express is provided through the IBM Operational Support Services — Support Line.

For more information on obtaining Support Line, call 888-426-4343 in the U.S. or Puerto Rico, or 800-465-9600 in Canada.

Software installation and defect support is provided through the IBM Operational Support Services/Support Line.

Packaging: One box

- Logic Unit
- 32 MB CompactFlash
- Keyboard
- Mouse
- Power Module
- Power Cord
- Publications

Shipment Group Components for NetVista N2200e, Thin Client Express Models

Shipment Group Component	MODELS																
	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
	U	A	B	C	L	B	D	C	F	G	I	L	N	N	S	S	S
	S	P	P	F	S	E	K	U	R	E	T	E	D	O	G	P	W
	I	K	O	L													
Ethernet 32 MB Logic Unit with 32 MB CompactFlash	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Keyboard																	
U.S. English	x	x															
Brazilian Portuguese			x														
French Canadian				x													
LA Spanish					x												
Belgian						x											
Danish							x										
U.K. English								x									x
French									x								
German										x							
Italian											x						
Dutch												x					
Norwegian													x				
Swiss														x			x
Spanish																	x
Swedish/Finnish																	
ISO English																	
Portuguese																	x
Icelandic																	
Publication Quick Setup																	
U.S. English	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Power Cord																	
U.S.	x		x	x	x												
European						x		x	x	x	x	x	x	x	x	x	x
Denmark							x										
Switzerland																	x
Italy																	
U.K.																	

Security, Auditability, and Control

When supported by a server host system, these products use the security and auditability features of the server system hardware, software, or application software managing the NetVista N2200e, Thin Client Express.

The N2200e thin client provides a hardware security “lock-down” point at the back/bottom of the machine. You must obtain a suitable locking cable (usually consisting of woven metal fibers with a lock on one end) that can be threaded through the “lock-down” point (or hole) and then locked to a suitable place (such as a table or other piece of furniture). When this feature is in use, the system cannot be opened (preventing theft of internal components) and it cannot be removed from the table to which it is connected (depending on the length of the securing cable).

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

Terms and Conditions

This product is available for purchase under the terms of the IBM Customer Agreement (ICA).

IBM hardware products are manufactured from new parts, or new and used parts. In some cases, the hardware product may have been previously installed. Regardless, IBM warranty terms apply.

IBM Credit Corporation Financing: Yes

Hardware 8363-Cxx: Three years for parts only, on an exchange basis.

CompactFlash Software: Software is licensed under the terms and conditions of the IBM International Program License Agreement. Refer to the license documents included for details.

Program Service End Date: April 30, 2002

New releases can be downloaded from URL:

<http://www.pc.ibm.com/ww/netvista/thinclient>

Select “Software”

CDs for new releases will also be available through your Business Partner.

You can report suspected defects until the product’s Service Expiration Date. The Service Expiration Date is defined in your License Information booklet under Program Services.

Warranty Service

CCE — Customer Carry-In Exchange via Mail-In (Base)

- Customer reports hardware problem to IBM (800-IBM-SERV) (426-7378)
- IBM express ships replacement part to customer
- Customer replaces part and returns defective part to IBM

Note: If it becomes necessary to replace a defective logic card, it is the customer’s responsibility to re-install the existing features, for example, memory modules on the new logic card. Likewise, if a memory module becomes

defective, it is the customer's responsibility to remove the defective module and replace it with the new module.

Keyboard and Mouse: IBM part numbered units supplied with the NetVista N2200e, Thin Client Express are serviced the same as any other NetVista. Display units with their own machine type and serial number use existing maintenance terms and conditions.

The replacement unit becomes the property of the customer in exchange for the failed unit, which becomes the property of IBM. The customer needs to pack the failed unit in the shipping carton that contained the replacement unit and follow the IBM return shipping instructions. IBM will cover the shipping charges both ways. If the customer does not use the approved shipping container, any damage the to failed unit may be charged to the customer.

International Warranty: These products are not eligible for International Warranty Service.

ServiceSuite and ServiceElect (formerly ESA) Maintenance

Warranty Service Upgrade

- IBM On-Site Exchange (IOE), 9 hours per day, Monday through Friday excluding holidays, next business day response
- IOE, 24 hours per day, 7 days per week, same-day response

Maintenance Services

- IOE, 9 hours per day, Monday through Friday excluding holidays, next business day response
- IOE, 24 hours per day, 7 days per week, same day response

Maintenance Service ICA

Currently available maintenance services for ICA legacy contracts. The preferred go-to-market offerings are ServiceElect and ServiceSuite. However, ICA legacy contracts will still be available for current customers until they are withdrawn.

Alternative Service (Warranty Service Upgrades)

- IOE, 9 hours per day, Monday through Friday excluding holidays, next business day response
- IOE, 24 hours per day, 7 days per week, same-day response

Maintenance Services

- IOE, 9 hours per day, Monday through Friday excluding holidays, next business day response
- IOE, 24 hours per day, 7 days per week, same-day response

Usage Plan Machine: No

IBM Hourly Service Rate Classification: One

Mid-Range System Option: Yes

Eligible Type	Discount	
	Three-Year	Five-Year
8363	12%	17%

Corporate Service Option: Yes

Option	Discount	
	Three-Year	Five-Year
Network	12%	17%

Extended Maintenance Option: Yes

When a type of service involves the exchange of a machine part, the replacement may not be new, but will be in good working order.

Rental Offering: No

Field-Installable Features: Yes

Model Conversions: No

Customer Setup: Yes

Graduated Charges: No

Educational Allowance: A reduced charge is available to qualified education customers. The educational allowance may not be added to any other discount or allowance.

Prices			
Description	Machine Type/Model	Part Number	IBM List Price ²
NetVista N2200e U.S English, CompactFlash, keyboard, mouse, video memory, power cord, power module, and publications	8363-CUS	8363CUS	\$775

² IBM price; does not include tax or shipping and is subject to change without notice. Reseller prices may vary.

Alternative and Maintenance Service

Warranty Upgrade Charges

IOE 7 x 24	IOE 9 x 5
\$75	\$50

Warranty Service Upgrade

IOE 7 x 24 Same Day	IOE 9 x 5 Next Business Day
\$75	\$50

Annual Minimum Maintenance Charges

IOE 7 x 24 Same Day	IOE 9 x 5 Next Business Day
\$82	\$55

For ServiceElect and ServiceSuite (formerly ESA) Maintenance Service Charges, contact Global Services at 888-IBM-4343 (427-4343).

Customer Financing: IBM Global Financing offers attractive financing to credit-qualified commercial and government customers and Business Partners in more than 40 countries around the world. IBM Global Financing is provided by the IBM Credit Corporation in the United States. Offerings, rates, terms, and availability may vary by country. Contact your local IBM Global Financing organization. Country organizations are listed on the Web at:

<http://www.financing.ibm.com>

Trademarks

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Year 2000 Readiness Disclosure

Statements made in this announcement regarding Year 2000 are "Year 2000 Readiness Disclosures" under the Year 2000 Information and Readiness Disclosure Act of 1998, a U.S. statute enacted on October 19, 1998.