

# NCD ThinPATH™ Xware

Cost effective access to legacy systems

NCD ThinPATH Xware delivers X Windows emulation to Microsoft® Windows® Terminal Server.

## Highlights

- Delivers X Windows applications to Windows-based Terminals or PC devices
- Multi-user version of NCD's industry standard X Windows emulation product
- Migrates terminal users to NT application environments while retaining the low management overhead of thin clients
- Connects thin client users to X Windows applications on any host including Sun®, DEC® and UNIX® systems
- Licensed for Citrix WinFrame™ and Microsoft Windows NT Server 4.0, Terminal Server Edition

## NCD ThinPATH™ Xware — X Windows emulation from NT server

NCD ThinPATH™ Xware is a server-based emulator module from the NCD ThinPATH family of software. NCD ThinPATH Xware displays X Windows applications side-by-side with Windows NT applications on the thin client desktop. NCD's expertise in X Windows emulation yields these NCD ThinPATH Xware features:

- Superior 32-bit X server performance
- X11R6 Font server support
- Graphical keyboard remapping utility
- Graphical FTP client
- VT terminal emulation
- Local and remote Window Management support
- Customized options for multi-user administration

## NCD ThinPATH Xware — optimized for thin clients

NCD ThinPATH Xware is the ideal solution for organizations beginning to deploy Windows NT Servers. NCD ThinPATH Xware installs quickly and easily on Microsoft Windows NT Server 4.0, Terminal Server Edition or Citrix WinFrame. Access from thin client desktops is provided through the RDP, ICA or X11 protocols. System Administrators can choose the level of access and configuration control users are allowed, regardless of whether the desktop device is a PC, Windows-based Terminal, Network Computer, UNIX Workstation or Macintosh®.

## High performance in multi-user NT environments

NCD ThinPATH Xware combines high X Windows compliance with optimized performance for multi-user NT systems from Microsoft and Citrix. To ensure easy access between legacy and NT applications, NCD ThinPATH Xware uses the advanced desktop design of Windows NT 4.0 to access X Windows and other Intranet applications over the network. A Connection Wizard simplifies access to host applications, while central administration options allow a high degree of setup flexibility. Through NCD ThinPATH Xware, System Administrators are readily able to optimize the X Windows Server to match users' expertise at the desktop.

## The NCD ThinPATH Software Family

NCD ThinPATH Xware is a member of the NCD ThinPATH Software family. NCD ThinPATH Software provides enhanced functionality and flexibility for Microsoft Windows NT 4.0, Terminal Server Edition from PCs and NCD ThinSTAR Windows-based Terminals. The NCD ThinPATH Software family is comprised of Management, Desktop Support, and Emulation modules. NCD ThinPATH Software offers a robust, low-cost Terminal Server solution. NCD ThinPATH Software is predicated on NCD's decade of experience in meeting customer needs with industry-leading hardware and software technology. A good deal of our success is the result of close working relationships with companies like Citrix®, IBM®, Intel®, and Microsoft®.

## World-class technical support

NCD and NCD Technology Certified Resellers provide a decade of experience in thin client computing. Backed by formal service level agreements with Microsoft and Citrix, you can choose from a wide range of services that cover the entire thin client environment.



Management

Desktop Support

Emulation

NCD ThinPATH Manager  
NCD ThinPATH Load Balancing

NCD ThinPATH Plus

NCD ThinPATH Connect  
NCD ThinPATH X Windows  
NCD ThinPATH Xware

# NCD ThinPATH™ Xware

## Technical Specifications

### NT Server Operating Systems

- Microsoft's Windows NT® Server 4.0 — Terminal Server Edition
- Citrix WinFrame 1.6/1.7 (Microsoft Windows NT Server 3.51)
- 32MB Base RAM + 4MB per user (server RAM)

### Multiple User Support

- Separate folder for Administrator-created connections
- Separate folder for end-user created connections
- Configurations defined by the Administrator or end-user
- Multiple instances of the X server running with unique display numbers
- Display number may be specified or automatically assigned

### X Server

- 32-bit X11R6
- Backing store
- Save under
- XRDB
- Visual support
  - Automatic visual selection
  - Support for StaticGray, GrayScale, PseudoColor, DirectColor, TrueColor, StaticColor
- Extension support
  - SIE
  - WinCenter Acceleration
  - SHAPE
  - XIE
  - XIdle
  - XTEST
  - PSEUDO-ROOT
  - MIT-SUNDRY-NONSTANDARD
  - ServerManagementExtension

### Font Management

- X11R6 font support
- X11R6 font server
- Automatic font substitution
- File services access to fonts via TFTP
- Native X server font format compressed .PCF

### Optional Fonts

- HP, DEC, OpenLook, Hanzi Guobiao, Hangul, Kanji

### Keyboard

- Automatic keyboard detection
- Graphical keyboard remapper
  - Predefined Maps for Generic UNIX, Sun Type 4 and 5, DEC, Latin 1, Latin 2, and Modifier keys

### Desktop Management

- Single window mode
  - One Microsoft window in which all X applications run using NCDwm or a remote window manager
- Multiple window mode
  - X applications and Windows applications run simultaneously on desktop with either a local or remote window manager
- Virtual screen support

### Local Window Managers

- Microsoft Window Manager
- NCD Window Manager
  - OSF/MOTIF appearance and behavior
  - Motif and Open Look HINTS support
  - ICCCM-compliance
  - Support for click-to-type and pointer-driven input models
  - Uses standard X Window configuration files

### Remote Window Management Support

- Support for OPEN LOOK, Motif, twm, others
- DEC Session Manager
  - Available in single and multiple window mode

### Common Desktop Environments (CDE)

- TriTeal Enterprise Desktop (TED)
- HP Vue
- SCO

### Startup Methods

- Telnet, rlogin, rexec, rsh
- X Display Manager
  - Broadcast, direct, indirect

### Remote Access

- XRemote over PPP
- Serial, XRemote
- Custom scripting support for automated dialing login and call-back procedures

### NCD Terminal Emulation

- VT320, VT300, VT220, VT102, VT100, VT52 ANSI support
- Uses X default file for terminal emulation configuration
- Color support
  - Hewlett Packard color pair model
- Character sets
  - ASCII (7-bit and 8 bit)
  - DEC Supplemental Graphics
  - ISO Latin Alphabets 1 supplemental Graphics
- Scripting support

### Configuration and Administration Management

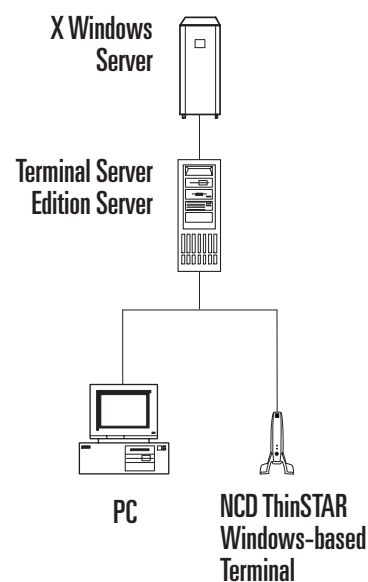
- Xdefaults file
- X keyboard map
- Host machines/applications
- Window Manager
- Open systems-based remote configuration and diagnostics
  - GUI-based
  - ASCII-based Telnet

### Security

- MIT-MAGIC-COOKIE-1
- XDM-AUTHORIZATION-1

### FTP Client

- 32-bit Windows FTP client
- Drag-and-drop file transfer
- File transfer, preview, renaming, and deletion from one program



### Corporate Headquarters

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