



## NCDware Publications Roadmap

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## Revision History

Revision history of this document:

Part Number	Revision Date	Description
9300671	Rev. A November, 1998	Roadmap for NCDware 5.1
9300571	Rev. B October, 1997	Roadmap for NCDware 5.0
9300628	Rev. A August, 1996	Roadmap for NCDware 4.1
9300355	Rev. A July, 1995	Roadmap for NCDware 4.0
9300317	Rev. A February, 1995	Roadmap for NCDware 3.3
9300274	Rev. A April, 1994	Roadmap for NCDware 3.2.1
9300253	Rev. A July, 1993	Roadmap for NCDware 3.1

# Before You Begin

This *Roadmap* is a guide and a subject index to technical publications about NCDware and NCD terminals.

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## Finding the Information in the Roadmap

The alphabetical tables in this *Roadmap* describe where to find information about high-level topics in NCDware technical publications.

Each entry in the Manuals column identifies a manual and a chapter in the manual where there is significant information about the topic. The abbreviated manual names are explained at the bottom of each page.

To fine-tune your search, use the table of contents or index of the manuals listed in the *Roadmap* table.

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## Summary of the NCDware Manual Set

The NCDware manual set does not include WinCenter documentation, although it does address issues related to configuring NCDware for use with WinCenter. The WinCenter documentation is available with the WinCenter software.

This section summarizes the purpose of each NCDware manual and who should use it. It also describes the NCD terminal hardware manuals.

- ❑ *NCDware Publications Roadmap*—high-level index of major topics in NCD manuals.

Anyone who needs to determine where to find information about a specific topic in the NCDware manual set should use the *Roadmap*.

- ❑ *NCDware Release Notes*—description of new features, known problems, and problems fixed in the 5.1 release.

Anyone who is installing NCDware or configuring terminals should read the *Release Notes*.

- ❑ **NCDware CD insert**—instructions for using NCD installation scripts to install NCDware on UNIX and WinCenter hosts.  
Anyone who is installing NCDware or configuring terminals should read the *NCDware CD Insert*.
- ❑ ***NCDware User's Guide***—an introductory manual providing information to assist users in becoming productive with their NCD terminals.  
NCD terminal users and system administrators who are new to NCDware should use the *User's Guide*.
- ❑ ***NCDware System Administrator's Guide for UNIX Systems***—introductory NCDware system administration guide for terminals with UNIX hosts, describing the tasks required for managing NCD terminals.  
System administrators should use the *System Administrator's Guide* to learn the recommended management procedures. It also offers detailed troubleshooting instructions.
- ❑ ***NCDware Reference Manual***— provides detailed technical information about NCDware, including X server error messages, the Boot Monitor and NVRAM, configuring terminals for networking protocols, and the NCD Terminal Emulator.  
This manual is for system administrators who set up NCD terminals and the user's environment. Also, anyone who does not use the NCD installation script for installing NCDware or who requires more customization than described in the *System Administrator's Guide* should use the *Reference Manual*. This manual can be ordered from NCD and is available online at NCD's web site, [www.ncd.com](http://www.ncd.com).
- ❑ ***Remote Configuration Parameter Quick Reference***— information about remote configuration parameters (for terminal configuration) in a condensed, tabular format.

Experienced system administrators and users should use the *Parameter Quick Reference* when configuring terminals by editing remote configuration files.

- ❑ *Using the 3270 Terminal Emulator*—how to use and configure NCD's 3270 terminal emulation software.  
Users and system administrators should read *Using the 3270 Terminal Emulator* for information about 3270 usage and management.
- ❑ *Using a PC Card in Your NCD Thin Client Device*—instructions on how to install and use a PC card (also called a PCMCIA card) with your terminals.
- ❑ NCD hardware installation booklets—instructions for setting up NCD terminals and connecting them to the network. Each document is designed for a specific NCD terminal model.
- ❑ NCD memory installation booklets—explain how to install memory in NCD terminals and run the recommended memory test.

The *FLEXlm End User Manual*, a detailed description of how to use and configure FLEXlm license management software, is available on the NCDware CD-ROM in HTML format and online from the following URL: [www.globetrotter.com](http://www.globetrotter.com).

In addition, this release includes updated online man pages. Man pages are installed along with NCDware on UNIX systems.

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## Comments on this Manual

You can send comments, suggestions, or questions about this *Roadmap* to the NCD Technical Publications Department by Internet e-mail. Write to [techpubs@ncd.com](mailto:techpubs@ncd.com).



# Contents

Access Control	1
Applications	1
Audio	2
Boot Monitor	2
Booting	3
Change Quick Setup	3
Change Setup Parameters	3
Change User Preferences	4
Color	4
Configuring Terminals	4
Console Menus	5
Display PostScript	5
Failover Features	5
Floppy Drive	6
Fonts	6
Graphics	6
ICA (Independent Computing Architecture)	7
Installation, Hardware	7
Installation, Software	7
Interface Boards (HMX Terminals)	8
Java	8
Keyboards	8
License Management	9
Light Pen	9
Local Clients (Applications)	10
Local File System	10
Logging In and Out	10
Memory	11

Messages	11
Name Service	11
NCD Display Manager	12
NCD Mosaic Browser	12
NCD User Services	12
Network	13
New Features	13
NFS (Network File System)	13
NVRAM (non-volatile random-access memory)	14
PC Cards	14
Ports	15
Power Management (EPA ENERGY STAR program)	15
Printing	15
Quick Start PC Cards	16
Remote Configuration	16
Security	16
Setup Menus	17
SNMP (Simple Network Management Protocol)	17
Terminal Emulation	17
Terminology	18
Time of Day	18
Touch Screen Software Support	18
Troubleshooting	18
Video	18
Window Managers	19
Windows NT Access	19
Wireless	19
X Server	20
X Window System	20
XDM (X Display Manager)	20
XRemote	21



## Access Control

Topic	Manuals
Access control parameters	RM 9
Configuration daemon	SAG 4; RM 6
Configuration parameters	RM 6
Console	SAG 7
Diagnostic daemon	SAG 8
Global password	SAG 4
Local clients	SAG 7; RM 6
Local File Manager	SAG 9
Setup menus	SAG 4
Serial and parallel ports	RM 14
SNMP	RM 15
User Preferences daemon	SAG 4; RM 6
X Display Manager	SAG 5
X server	SAG 5

## Applications

Topic	Manuals
(See also Local Clients.)	
IBM mainframe applications	3270 7
Local clients (local applications)	UG 5-12; SAG 7
OpenWindows applications	UG 12
OSF/Motif environment	UG 9
Starting applications	UG 9; SAG 7

### Abbreviations

*User's Guide*

*System Administrator's Guide*

*Reference Manual*

**UG** *Remote Configuration Parameter Quick Reference*

**SAG** *Using the 3270 Terminal Emulator*

**RM** *Using a PC Card in Your NCD Thin Client Device*

**PQR**

**3270**

**PC**

## Audio

Topic	Manuals
Audio on HMX terminals with WinCenter	SAG 12
Built-in audio on Explora terminals	Terminal installation booklets

## Boot Monitor

Topic	Manuals
Accessing the Boot Monitor	SAG 3, 17; RM 4, 11
Boot Monitor commands	SAG 17; RM 11
Boot Monitor changes	Boot Monitor readme files
Boot Monitor functions	UG 3; SAG 2, 3,17; RM 2, 3, 4,11
Boot Monitor and NVRAM	RM 3, 11
Boot Monitor Setup menus	SAG 17, 9; RM 11
Boot Monitor updates	SAG C; RM 11
Boot Monitor version in use, finding	UG 4; SAG 8
Downloading a new version	RM 11

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## Booting

Topic	Manuals
(See also X server.)	
About booting	UG 2, 4; SAG 3; RM 2, 3, 4
Address discovery	RM 3
Booting from a PC card	PC; SAG 3, 9, 17; RM 4
Booting from a remote PC card	PC; SAG 9
Boot host in use, finding	UG 5
Booting sequence	RM 2, 4
BOOTP/DHCP	SAG 3; RM 3; <i>bootpd</i> , <i>bootptab</i> , and <i>bootptab.cfg</i> man pages
Manual booting	SAG 3; RM 4
Remote reset	RM 15
Troubleshooting	SAG 3, 17; RM 2, 3, 4

## Change Quick Setup

Topic	Manuals
Setup menu locations of parameters	PQR
Using Change Quick Setup	SAG 4; RM 6, 9; <i>ncdsetup</i> man page

## Change Setup Parameters

Topic	Manuals
New and revised Setup menu items	<i>Release Notes</i>
Setup menu locations of parameters	PQR
Using Change Setup Parameters	SAG 4; RM 9; <i>ncdsetup</i> man page

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**PC**

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## Change User Preferences

Topic	Manuals
Setup menu locations of parameters	PQR
Using Change User Preferences	UG 6; RM 9; SAG 4; <i>ncdprefs</i> man page

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## Color

Topic	Manuals
(See also Graphics.)	
Color definition file	SAG 9; RM 9, 14
Color depth (16- and 24-bit color)	SAG A; RM 11
Colormap flash protection	SAG 12
Screen background	UG 6

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## Configuring Terminals

Topic	Manuals
Configuration methods	SAG 4; RM 9, 11
Interactive configuration (TELNET and Setup menus)	SAG 4; RM 9; <i>ncdloadprefs</i> , <i>ncdsetup</i> , and <i>ncdpref</i> man pages
NVRAM contents and utility	SAG 3, 4; RM 11
Using configuration parameters	SAG 4; RM 6, 9; PQR

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## Console Menus

Topic	Manuals
(See also Local Clients.)	
Command-line options for Console utilities	SAG 7; man pages for local clients
Controlling access to Console	SAG 7, 8
Customizing the environment (Change User Preferences)	UG 6; SAG 4
Informational menus and messages	UG 4; SAG 8
Using the Setup menus	UG 4, 6; SAG 4; RM 9

## Display PostScript

Topic	Manuals
Configuring Display PostScript	SAG 17

## Failover Features

Topic	Manuals
About failover features	SAG 3
Booting	SAG 3, 18; RM 2, 3, 4
Fonts	SAG 3, 6; RM 7
License service	SAG 3; FLEXlm book
Login services	SAG 3, 5; RM 8
Name services	SAG 3; RM 5

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**PC**

## Floppy Drive

Topic	Manuals
Hardware required and installation	<i>Installing Your Floppy Drive</i>
Local file system on floppy disk	UG 11; SAG 9
Using floppy drive support software	UG C; SAG 9; <i>ncdfloppy</i> man page

## Fonts

Topic	Manuals
Browser fonts	SAG 15
Configuration for bitmap font usage	SAG 6; RM 7
Configuration for font server usage	SAG 6; RM 7; <i>ncdfs</i> man page
Default font path	SAG 6; RM 7
Display PostScript fonts	SAG 17
Font and font server problems	SAG 18
Font management utilities	RM 7; <i>mkfdir</i> , <i>ncdbdftopcf</i> , <i>ncdfsinfo</i> , <i>ncdfsfonts</i> , <i>ncdfstobdf</i> , <i>ncdmkfontdir</i> , and <i>ncdshowfont</i> man pages
Java fonts	SAG 14
Putting fonts on a non-standard host	SAG 6
Terminal emulator fonts	UG 7; RM 12

## Graphics

Topic	Manuals
OpenGL support	UG 6
SIE, converting to XIE	RM 13
XIE support	RM 13

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## ICA (Independent Computing Architecture)

Topic	Manuals
Configuring connections	UG 8; SAG 12; <i>icacInt</i> man page
Connecting to Windows NT servers	PC 5; UG 8; SAG 12

## Installation, Hardware

Topic	Manuals
Floppy drive installation	<i>Installing Your Floppy Drive</i>
Memory	<i>Installing &amp; Testing Memory</i>
Network interface boards for HMX	Terminal installation booklets and TRP, PEP, and ESP board installation booklets
PC cards	PC; Terminal installation booklets
Terminal hardware	Terminal installation booklets

## Installation, Software

Topic	Manuals
Content of the distribution	<i>Release Notes</i>
Installation on UNIX and WinCenter hosts using the <i>ncdinstall</i> script	NCDware CD Insert; SAG 3
Manual installation	Call NCD Technical Support.

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**PC**

## Interface Boards (HMX Terminals)

Topic	Manuals
ESP (Ethernet/Serial/PC) board	Terminal or ESP installation booklets
Network Interface Module (NIM)	Terminal installation booklets
PEP (Parallel/Ethernet/PC) board	Terminal or PEP installation booklets
TRP (Token-Ring/PC) board	Terminal or TRP installation booklets

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## Java

Topic	Manual
Configuring Java	SAG 14
Starting Java applets	UG 11; SAG 14, 15; <i>java</i> and <i>appletviewer</i> man page
Using Java commands	UG 11; SAG 14

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## Keyboards

Topic	Manuals
Default mapping	RM 16
Installing a keyboard	Terminal installation booklets
International keyboard support via downloadable definition files	RM 17
Remapping and keymap editor	UG 3, 8; SAG 11; 3270; <i>keymap_editor</i> man page
Setup key equivalents	UG 3, 6; SAG 4, 7
Using keyboards	UG 3; RM 11, 16

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## License Management

Topic	Manuals
Determining licensed features	<b>SAG 8</b>
Features requiring licensing	<i>Release Notes</i> ; <b>SAG 3</b>
FLEXlm configuration and usage	<b>SAG 3</b> ; <i>FLEXlm End User Manual</i>
Installing license management software	NCDware CD insert; <b>SAG 3</b> ; <i>FLEXlm End User Manual</i>
Managing floating and site licenses	<b>SAG 3</b>
Supplying keys for node-locked licenses	<b>SAG 3</b>
Using <i>ncdinstall</i> to supply license keys	NCDware CD insert; <b>SAG 3</b>
Utilities for license management	<b>SAG 3</b> ; <i>lmcksum, lmdiag, lmdown, lmgrd, lmhostid, lmremove, lmreread, lmstat, lmswitchr, lmver, and ncdlicense man pages</i>

## Light Pen

Topic	Manuals
Connecting to terminal	<b>UG B</b>
Software support	<b>UG B</b>

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## Local Clients (Applications)

Topic	Manuals
(See also NCD User Services, Setup, Terminal Emulation, Video, and Window Managers.)	
Color support in local clients	SAG A
Configuring local clients	SAG 7
Controlling access to local clients	SAG 7
Man pages for local clients	SAG 7; online man pages
Starting local clients	UG 8; SAG 7

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## Local File System

Topic	Manuals
Using a local file system	PC; SAG 9; UG 11
Using the Local File Manager	PC; SAG 9; UG 11

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## Logging In and Out

Topic	Manuals
(See also XDM.)	
Configuring login choices	SAG 5
Logging in and out (UNIX hosts)	UG 2, 4, 7
Logging in (Windows NT hosts)	UG 8; SAG 12
Configuring XDM	SAG 5; RM 8

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## Memory

Topic	Manuals
Determining amount installed	UG 5; SAG 8
Installing and testing memory	Terminal installation booklets, <i>Installing &amp; Testing Memory</i>
Memory requirements for X servers and modules	<i>Release Notes</i>
Solving memory problems	SAG 18

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## Messages

Topic	Manuals
Boot Monitor messages	SAG 18
Message hide box (Console)	UG 4; SAG 8
Warning messages (low memory)	SAG 8
X server messages	RM 17

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## Name Service

Topic	Manuals
Configuring terminals and hosts for name service	SAG 3; RM 5

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**PC**

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## NCD Display Manager

Topic	Manuals
Setting up the NCD Display Manager	SAG 5; <i>ncddm</i> man page
Using the NCD Display Manager with the NCD Mosaic Browser	SAG 15

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## NCD Mosaic Browser

Topic	Manuals
Configuring the browser	SAG 15; <i>browser</i> and <i>nmosaic</i> man pages
Opening a Web document	UG 9; SAG 15; online help screens
Printing	SAG 10, 15
Starting the NCD Mosaic Browser	UG 9; SAG 15
Supported file formats and parameters	UG 9; SAG 15; PQR; online help screens

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## NCD User Services

Topic	Manuals
(See Console Menus and Local Clients.)	

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## Network

Topic	Manuals
Configuring terminals for the network	SAG 3; RM 2, 4, 5
Hardware connection	Terminal installation booklets
Host requirements for server, font, and configuration file downloading	SAG 3, 4, 6
Statistics	RM 10

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## New Features

Topic	Manuals
List of new features	<i>Release Notes</i>

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## NFS (Network File System)

Topic	Manuals
Booting from another terminal's PC card via NFS	PC; SAG 9
Booting terminals via NFS	SAG 3, 9; RM 4
File access using NFS	SAG 3, 14, 15; RM 5
Mounting a local file system	SAG 9
NCD Display Manager enhancements for NFS	SAG 5
Statistics	RM 10

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## NVRAM (non-volatile random-access memory)

Topic	Manuals
Boot Monitor and NVRAM	RM 11
Boot Monitor Setup menus	RM 11
Configuration parameters saved in NVRAM	PQR; RM 6, 11
Contents and default settings in NVRAM	RM 11
NVRAM utility (Boot Monitor command <b>nv</b> )	SAG 18; RM 11

## PC Cards

Topic	Manuals
(See also Quick Start PC cards.)	
Booting from PC cards	SAG 9
Installing PC cards	PC; Terminal installation booklets
Manual boot from a PC Card	SAG 3; RM 4; PC
Quick Start PC cards	Release Notes; SAG 9; PC
Token-Ring/PC support	Terminal installation booklets
Using PC cards for X server and associated files	SAG 3, 9, 16; PC

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## Ports

Topic	Manuals
Hardware pinouts and connectors	Terminal installation booklets and TRP, PEP, and ESP booklets
Port usage	<b>RM 14; SAG 9, 10, 16</b>
Using for floppy drive	<b>SAG 9</b>
Using for printers	<b>SAG 10</b>
Using for XRemote	<b>SAG 16</b>

## Power Management (EPA ENERGY STAR program)

Topic	Manuals
Power management	UG 6; Monitor manuals; Terminal installation booklets

## Printing

Topic	Manuals
Configuring terminals for printing	<b>SAG 10; <i>ncdlp</i> and <i>ncdprint</i> man pages</b>
Printing from the browser	<b>UG 9; SAG 10, 15</b>
Printing from Java applications	<b>UG 11; SAG 10, 14</b>
Printing from terminal emulators	<b>UG 7; SAG 10; 3270</b>

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**PC**

## Quick Start PC Cards

Topic	Manuals
(See also Local File System and PC cards.)	
Contents	
Installation	PC; <i>Release Notes</i> ; Terminal installation booklets
Usage	PC; SAG 9, 16

## Remote Configuration

Topic	Manuals
Language	PQR; SAG 4; RM 6
Methods of downloading files	SAG 4; RM 5
New and revised parameters	<i>Release Notes</i>
Parameters	PQR; SAG 4; RM 6
Parameters corresponding to Setup menu fields	RM 9
Setting up files, syntax rules	SAG 4; RM 6

## Security

Topic	Manuals
(See Access Control.)	

### Abbreviations

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UG *Remote Configuration Parameter Quick Reference* PQR  
 SAG *Using the 3270 Terminal Emulator* 3270  
 RM *Using a PC Card in Your NCD Thin Client Device* PC



## Setup Menus

Topic	Manuals
Boot Monitor	SAG 3, 18; RM 11
Corresponding remote configuration parameters	RM 9
New and revised Setup menu items	<i>Release Notes</i>
Setup menu locations of parameters	PQR
Using Change Quick Setup	SAG 4; RM 6, 9; <i>ncdsetup</i> man page
Using Change Setup Parameters	SAG 4, 7; RM 9; <i>ncdsetup</i> man page
Using Change User Preferences	UG 6; SAG 4

## SNMP (Simple Network Management Protocol)

Topic	Manuals
MIB	RM 15
SNMP names and paths for parameters	PQR
SNMP statistics	RM 10
Using SNMP	RM 15

## Terminal Emulation

Topic	Manuals
3270 and 3179G terminal emulation; 3287 print emulation	3270; <i>ncd3270</i> , <i>ncd3287</i> man pages
Dialer	UG 12; SAG 16
NCD Terminal Emulator (VT320)	UG 7; SAG 5, 7; RM 12; <i>ncdterm</i> and <i>ncdrunterm</i> man pages

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## Terminology

Topic	Manuals
Terminology	Glossaries in UG, SAG, and 3270

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## Time of Day

Topic	Manuals
Setting the time	SAG B

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## Touch Screen Software Support

Topic	Manuals
Touch screen software support	UG B; SAG 7; <i>touchscreen</i> man page

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## Troubleshooting

Topic	Manuals
Hardware	Hardware installation booklets
Software	SAG 18
X server diagnostic messages	RM 17

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## Video

Topic	Manuals
Using Video Player, <i>vp</i> , <i>video</i> , and Starlight Networks' StarWorks support	UG 11; <i>video</i> , <i>vp</i> , and <i>ncdsendvideo</i> man pages

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<b>SAG</b>	<i>Using the 3270 Terminal Emulator</i>	<b>3270</b>
<b>RM</b>	<i>Using a PC Card in Your NCD Thin Client Device</i>	<b>PC</b>

## Window Managers

Topic	Manuals
Function and usage	UG 3, 9
<i>mwm</i>	UG 9, 12; SAG 7; <i>mwm</i> man page
NCD local window managers	UG 9; 3270 5; SAG 7; <i>ncdlauncher</i> and <i>ncdwm</i> man pages
<i>olwm</i>	UG 13

## Windows NT Access

Topic	Manuals
Configuring and using WinCenter software	WinCenter manuals included with WinCenter software
Configuring the FLEXlm licensing software on WinCenter	SAG 3
Installing NCDware on WinCenter servers	NCDware CD insert
Logging in to Windows NT servers	UG 8; SAG 12

## Wireless

Topic	Manuals
Configuring a wireless terminal	SAG 13
Using a wireless terminal	SAG 13
Wireless statistics	RM 10

### Abbreviations

*User's Guide*

*System Administrator's Guide*

*Reference Manual*

**UG** *Remote Configuration Parameter Quick Reference*

**SAG** *Using the 3270 Terminal Emulator*

**RM** *Using a PC Card in Your NCD Thin Client Device*

**PQR**

**3270**

**PC**

## X Server

Topic	Manuals
Access control	SAG 5
Definition	UG 1, A; SAG 2
Modules	SAG 3
New features, module sizes, and memory requirements	<i>Release Notes</i>
X server messages	RM 17

## X Window System

Topic	Manuals
General description	UG A
Setting X resources	SAG 5, 7
X resource definitions for NCD utilities	Man pages for each local client
X Window System applications	UG A

## XDM (X Display Manager)

Topic	Manuals
(See also Logging In and Out.)	
Login and session management configuration	SAG 5; RM 8; <i>xdm</i> man page
Using login services	UG 2, 4

### Abbreviations

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## XRemote

Topic	Manuals
Using XRemote	UG 12; SAG 16; <i>xinitremote</i> and <i>Xremote</i> man pages
XRemote and PC cards	PC; SAG 16

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