

Windows 95 Resource Kit Overview

This section lists the chapters covered in the *Windows 95 Resource Kit*; each listing is followed by a summary and an outline of topics in that chapter.

PART 1 Corporate Planning Guide

Chapter 1 Corporate Deployment Guide

This chapter provides an overview of the significant steps in the deployment schedule.

- Overview of the Process
- Review Windows 95
- Assemble the Planning Team and Tools
- Specify the Preferred Network Client Configurations
- Conduct the Lab-Test
- Plan the Pilot Rollout
- Conduct the Pilot Rollout
- Finalize the Rollout Plan
 - Roll Out Windows 95!

Chapter 1 Corporate Implementation Strategy

This chapter explains in depth the key decisions or actions listed in the deployment guide.

- Review Windows 95: The Details
- Assemble the Planning Team and Tools: The Details
- Specify the Preferred Network Client Configuration: The Details
- Conduct the Lab Test: The Details
- Plan the Pilot Rollout: The Details
- Conduct the Pilot Rollout: The Details
- Finalize the Rollout Plan: The Details
 - Roll Out Windows 95: The Details

PART 2 Installation

Chapter 2 Introduction to Windows 95 Setup

This chapter introduces basic concepts and requirements for installing Windows 95, and provides a step-by-step guide to using Custom Setup options to install Windows 95 on the local hard disk of an individual computer.

- Windows 95 Setup Overview
- Types of Windows 95 Installations
- Installation Requirements
- Before Installing Windows 95
- Starting Windows 95 Setup
 - Running Windows 95 Setup

Chapter 3 Server-Based Setup for Windows 95

This chapter provides detailed information about Server-based Setup, which includes installing Windows 95 source files on a server, plus preparing for and installing Windows 95 to run as a shared copy on a client computer.

- Server-Based Setup: The Basics
- Shared Installations: The Issues
- Task 1: Copying Windows 95 Files to a Server
- Task 2: Creating Home Directories for Shared Installations
- Task 3: Installing Windows 95 for Shared Installations
 - Technical Notes for Shared Installations

Chapter 4 Custom, Automated, and Push Installations

This chapter provides detailed information about customizing Windows 95 installations and using logon scripts for automatic mandatory installation of Windows 95.

- Custom Installations for Windows 95: The Basics
- Issues for Custom Installations of Windows 95
- Customizing Windows 95 with Setup Scripts
- Customizing Windows 95 with WRKGRP.INI Files
- Customizing Windows 95 with Profiles and Policy Files
- Overview of Push Installations
- Using Logon Scripts for Push Installation
 - Using Microsoft Systems Management Server for Push Installation

Chapter 5 Setup Technical Discussion

This chapter provides technical information about Windows 95 Setup, including an overview of files used in Setup and system startup, background information about Safe Recovery, and detailed descriptions of the Setup and system startup processes.

- Phases of the Setup Process
- Safe Detection, Safe Recovery, and Verification
- Setup Files Overview
- Windows 95 Startup Process
- System Startup Files
- Windows 95 Setup with Other Operating Systems
 - Removing Windows 95 from a Computer

PART 3 Networking

Chapter 6 Introduction to Windows 95 Networking

This chapter provides an overview of Windows 95 networking, including a discussion of compatibility and operational improvements introduced with Windows 95, streamlined steps for network configuration, and a summary of Plug and Play networking support.

- Windows 95 Networking: The Basics
- Issues for Windows 95 Networking
- Network Configuration Overview
- Plug and Play Networking Overview
 - Technical Notes on Installing Networking Components

Chapter 8 Windows 95 on Microsoft Networks

This chapter presents procedures and technical information for using Windows 95 on Microsoft networks running Windows 95, Windows for Workgroups, Windows NT, and LAN Manager.

- Windows 95 and Microsoft Networking Overview
- Choosing Windows 95 vs. Windows NT Workstation 3.5
- Installing Client for Microsoft Networks
- Configuring Client for Microsoft Networks
- Running Windows 95 with Windows NT Server
- Running Windows 95 in a Mixed Microsoft Network Environment
 - PROTOCOL.INI: Real-Mode Network Initialization File

Chapter 7 Windows 95 on NetWare Networks

This chapter presents information for configuring and integrating Windows 95 on Novell® NetWare® networks.

- Windows 95 on NetWare Networks: The Basics
- Issues for Windows 95 on NetWare Networks
- Configuring NetWare Servers to Support Windows 95
- Using Microsoft Client for NetWare Networks
- Using a Novell NetWare Client
 - Technical Notes for Windows 95 on NetWare Networks

Chapter 8 Windows 95 on Other Networks

This chapter provides details about installing and running Windows 95 on other networks, and offers information about mainframe connectivity for Windows 95, using emulation products.

- Installing Support for Other Networks
- Using 16-bit Real-Mode WinNet Drivers
- Artisoft® LANtastic®
- Banyan® VINES®
- Beame and Whiteside NFS
- DEC™ Pathworks™
- IBM® OS/2® LAN Server
- SunSelect PC-NFS®
- TCS® 10-Net
 - Mainframe Connectivity and Windows 95

Chapter 9 Logon, Browsing, and Resource Sharing

This chapter presents information about configuring and using the Windows 95 logon process and browsing network resources. This chapter also describes how to use the Windows 95 peer resource sharing capabilities.

- Logon, Browsing, and Resource Sharing: The Basics
- Issues for Logon, Browsing, and Resource Sharing
- Overview of Logging Onto Windows 95
- Configuring Validated Logon
- Using Logon Scripts
- Browsing Overview
- Browsing on Microsoft Networks

- Browsing on NetWare Networks
- Overview of Peer Resource Sharing
- Using File and Printer Sharing for Microsoft Networks
 - Using File and Printer Sharing for NetWare Networks

Chapter 10 Network Technical Discussion

This chapter describes technical issues related to network adapters and protocols for Windows 95.

- Network Adapter Drivers and Protocols in Windows 95: The Benefits
- Issues for Network Adapters and Protocols
- Installing Drivers and Protocols
- Network Adapters and Windows 95
- IPX/SPX-Compatible Protocol
- TCP/IP Protocol
- NetBEUI Protocol
 - Technical Notes for Windows 95 Networking

PART 4 System Management

Chapter 111 Introduction to System Management

This chapter describes how to set up and enable user profiles, system policies, remote administration, and network backup functionality. It also describes how to use the Windows 95 system management tools — System Monitor, Net Watcher, System Policy Editor, and Registry Editor — and includes information about third-party administration applications.

- System Management with Windows 95

Chapter 14 Security

This chapter describes logon and network security features of Windows 95, and explains options for using a master password and password caching.

- Windows 95 Security: The Basics
- Issues for Windows 95 Security
- Windows 95 Network Security Overview
- Enabling Pass-through Security
- User-Level Security in Multiple Domain Environments
- Security for Windows 95 in NetWare Bindery Environments
- Using Share-Level Security

- Using User-Level Security
- Using a Master Password
 - Using the Windows 95 Password Cache

Chapter 12 User Profiles and System Policies

This chapter describes how to use user profiles to define preferences, network settings, and application settings for individuals. This chapter also describes how to use system policies to control what users can and cannot do on the desktop and the network.

- User Profiles and System Policies: The Basics
- Issues for User Profiles and System Policies
- User Profiles Overview
- Enabling User Profiles
- System Policies Overview
- Using System Policy Editor
- Preparing to Use System Policies on the Network
- Creating System Policies
- System Policy Examples
- System Policy Settings Summary
 - System Policy Templates

Chapter 13 Remote Administration

This chapter describes the Windows 95 management features that allow you to manage network computers from your own computer. This chapter also includes information about administration applications and network backup agents from other vendors to support network administrators in the corporate enterprise.

- Remote Administration: The Basics
- Issues for Remote Administration
- Setting Up for Remote Administration
- Managing Remote Registries with System Policy Editor
- Managing Remote Registries Using Registry Editor
- Using System Monitor for a Remote Computer
- Using Net Watcher for Remote Administration
- Using Network Neighborhood for Remote Administration
- Using Network Backup Agents
 - Using Remote Administration Tools from Other Vendors

Chapter 17 Performance Tuning

This chapter describes how to use swap files, 32-bit disk and file access, and System Monitor to manage memory and performance in Windows 95.

- Windows 95 Performance Tuning: The Basics
- Issues for Performance Tuning
- Performance Tuning Overview
- Optimizing the Swap File
- Optimizing File System Performance
- Optimizing Printing
- Optimizing Network Performance
- Tracking Performance with System Monitor
 - Tuning for Network Performance

PART 5 System Configuration

Chapter 14 Introduction to System Configuration

This chapter presents some background technical information related to Plug and Play devices and other device configuration details.

- Plug and Play Overview
 - Devices Technical Discussion

Chapter 15 Devices

This chapter presents an overview of issues related to both Plug and Play and legacy devices. Then it provides specific details for installing and configuring devices, including PCMCIA cards, display adapters, the mouse, and communications devices.

- Devices: The Basics
- Issues for Devices
- Devices Overview
- Installing New Devices
- Changing Settings with Device Manager
- Enabling PCMCIA Cards
- Managing Alternate Settings for Hardware
- Configuring the Display
 - Configuring the Mouse
- Configuring Communications Ports
- Real-Mode Drivers and the IOS.INI Safe Driver List

- Troubleshooting Device Configuration

Chapter 16 Disks and File Systems

This chapter presents information about the Windows 95 installable file systems, including the new 32-bit file allocation table (VFAT) file system. It also describes long filenames and how you can use them locally and on various network configurations, plus how to use Fdisk, Format, DriveSpace, Disk Defragmenter, and ScanDisk for managing disks and data.

- Disks and File Systems: The Basics
- Issues for Disks and File Systems
- Windows 95 File System Overview
- Using Long Filenames
- VCACHE and CDFS Supplemental Cache
- Partitioning Hard Disks
- Disk Management Overview
- Using Disk Compression with Windows 95
- Defragmenting Disks
- Using ScanDisk
 - Troubleshooting File Systems

Chapter 17 Multimedia

This chapter describes how, with built-in support for multimedia and streamlined architectures for digital video, digital audio, MIDI, and file handling subsystems, Windows 95 offers very high-quality sound, video, and animation effects.

- Multimedia: The Basics
- Issues for Windows 95 Multimedia
- Multimedia Overview
- Recording, Editing, and Playing Audio
- Playing and Recording Digital Video
- Customizing CDs with AutoPlay
- Buying a Multimedia Computer
 - Troubleshooting Multimedia Software Problems

Chapter 18 Application Support

This chapter offers some tips for making your applications based on Win32®, Win16, and MS-DOS run well under Windows 95, and explains how applications can share and exchange data using OLE.

- Application Support: The Basics
- Issues For Applications Support
- Application Support: Overview
- Installing Applications
- Running Applications
- Configuring Win16-based Applications
- Configuring MS-DOS – based Applications
- How Applications Share Data Using OLE
 - Troubleshooting Application Startup

Chapter 19 Printing and Fonts

This chapter describes the improvements in the printing subsystem and explains how to set up printers with Windows 95. It also describes font support in Windows 95.

- Windows 95 Printing and Fonts: The Basics
- Issues for Printing and Fonts
- Windows 95 Printing Subsystem Overview
- Installing a Printer
- Sharing a Printer
- Connecting to a Remote Printer
- Using a NetWare Print Server
- Spooling Print Jobs from a NetWare Print Server
- Printing Flowcharts
- Windows 95 Fonts Overview
- How Windows 95 Matches Fonts
- Loading Fonts in Windows 95
- Installing Additional Fonts
- Troubleshooting Printing Problems
 - Troubleshooting Font Errors

PART 6 Communications

Chapter 24 Introduction to Windows 95 Communications

This chapter describes how changes to the communications subsystem in Windows 95 have resulted in improved communications capabilities over Windows 3.1. It also briefly presents the new communications features that will be explained in more detail in other chapters in this section.

- Overview of Communications in Windows 95
- Improved Communications in Windows 95
- Communications Architecture
- Communications Drivers
- Windows 95 Mobile Computing
 - Configuring Mobile Computers

Chapter 25 Modems and Communication Tools

This chapter describes how to install and use modems with Windows 95, and how you can use HyperTerminal and Phone Dialer tools for online communication.

- Modems and Communication Tools: The Basics
- Issues for Modems and Communication Tools
- Overview of Modems and Communication Tools
- Setting Up a Modem
- Defining Your Location
- Using HyperTerminal
- Using Dialer
 - Using Dialing Properties

Chapter 26 Electronic Mail and Microsoft Exchange

This chapter describes how Microsoft Exchange provides a central place for sending and receiving messages from other messaging services, such as electronic mail, faxes, and online services. It also describes how other Windows 95 message features let you move and store documents, messages, and addresses.

- Microsoft Exchange: The Basics
- Issues for Microsoft Exchange
- Microsoft Exchange and Windows 95 Messaging Features Overview
- Installing the Microsoft Exchange Client
- Using Microsoft Exchange with Microsoft Mail
- Setting Up Microsoft Exchange for a User
- Adding Information Services to an Existing Messaging Profile
- Using Microsoft Mail Remotely
- Customizing Microsoft Exchange
- Upgrading to a Full Microsoft Mail Postoffice
- Upgrading to Microsoft Exchange Server
 - Microsoft Mail Gateways

Chapter 27 Microsoft Fax

This chapter explains how to use the Microsoft Fax feature, including procedures for configuring Microsoft Fax, sending faxes, sharing a modem, formatting fax addresses, and establishing and maintaining security.

- Microsoft Fax: The Basics
- Microsoft Fax: The Issues
- Overview of Microsoft Fax
- Configuring Microsoft Fax
- Sending Faxes
- Sharing a Fax Modem
- Network Fax Service
- Rendering and Printing Faxes
 - Troubleshooting

Chapter 20 Dial-Up Networking and Mobile Computing

This chapter describes how to use Windows 95 tools to remotely access the network. It also describes how Windows 95 tools make it easier for users who have both portable and desktop computers to manage multiple configurations and to keep files between two computers synchronized.

- Dial-Up Networking and Mobile Computers: The Basics
- Issues For Dial-Up Networking
- Overview of Windows 95 Dial-Up Networking
- Installing Dial-Up Networking
- Configuring Dial-Up Networking Clients and Servers
- Connecting to Remote Access Servers
- Connecting to Shiva® Servers
- How Dial-Up Networking Works
- PPP Architecture and Services
- Overview of Windows 95 Mobile Computing Features
- Mobile Computing: The Issues
- Direct Cable Connection
- Using Remote Mail With Microsoft Exchange
- Using Microsoft Fax
- Using Deferred Printing
 - Using Briefcase for File Synchronization

Chapter 21 The Microsoft Network

This chapter describes how to set up and register The Microsoft Network and includes other instructions for providing or restricting access to the service from a network, and briefly describes the features of this new online service from Microsoft.

- The Microsoft Network: The Basics
- Issues for The Microsoft Network
- Registering with The Microsoft Network
- Shortcuts
- Microsoft Exchange
- Other Features of The Microsoft Network
 - How The Microsoft Network Works

Chapter 22 Internet Access

This chapter describes how to configure Windows 95 to access the Internet, and also offers some basic tips for browsing and accessing information on the Internet.

- Connecting to the Internet: The Basics
- Connecting to the Internet: Issues
- Overview of Connecting to the Internet
- Configuring Hardware for Internet Access
- Configuring Windows 95 for Internet Access
- Navigating the Internet
 - Configuring a Gateway Server

PART 7 Windows 95 Reference

Chapter 23 Windows 95 Architecture

This chapter provides a brief review of the Windows 95 architecture to assist you in understanding how the various key operating system components operate.

- Improvements over Windows 3.1
- Windows 95 Architecture Components
- Windows 95 Registry
- Device Drivers
- Configuration Manager
- Core System Components
- Installable File Systems

- Virtual Machine Manager
- Application Support
 - User Interface

Chapter 24 Windows 95 Network Architecture

This chapter presents specific information about the architecture for the networking components in Windows 95.

- Windows 95 Network Architecture Overview
- Multiple Network Support
- NDIS Protocol Overview
- Architecture for Network Protocols
- Architecture for Windows 95 Networking Clients
- Architecture for Peer Resource Sharing
 - IPC and Windows 95

Chapter 33 Windows 95 Registry

This chapter describes the Windows 95 Registry and presents background information about the structure and contents of the Registry. It also describes how to use the information in the Registry for troubleshooting and configuration maintenance, how values in INI files and other configuration files are stored in the Registry, and how to administer the Registry from a remote location.

- Windows 95 Registry Overview
- Getting Started with Registry Editor
- How Windows 95 Components Use the Registry
- Registry Structure
- Initialization Files and the Registry
- How Windows 95 Uses MS-DOS Configuration Files
 - How INI File Settings Are Mapped to the Registry

Chapter 25 International Windows 95

This chapter summarizes information about local editions for Windows 95, and provides technical details about defining regional settings in setup scripts and installing alternate code pages.

- Overview of Windows 95 Local Editions
- Technical Information for Local Editions and Applications
- Regional Setting Values in Custom Setup Scripts
 - Technical Notes for International Windows 95

Chapter 26 General Troubleshooting

This chapter provides background information for troubleshooting Windows 95.

- Troubleshooting Strategy
- Windows 95 Troubleshooting Aids
 - Troubleshooting Procedures

PART 8 Appendixes

Glossary

This section presents definitions of the technical terms used in the *Resource Kit*.

Appendix AA Command-Line Commands Summary

This appendix lists and describes MS-DOS and network commands available in Windows 95.

- Command Syntax
- Using the Command Prompt
- Native Windows 95 Commands
- Command-Line Switches for Windows Explorer
- Command-Line Switches for Disk Utilities
 - TCP/IP Utilities

Appendix BB Windows 95 System Files

This appendix lists and describes the system files supplied with Windows 95, including the standard files installed for various Windows 95 configurations.

- Windows 95 Distribution Disk Storage Overview
- Using the Extract Program to Extract Files
 - Summary of Windows 95 Files

Appendix CC Windows 95 INF Files

This chapter describes the format of device information files (INF) files and provides detailed information on the purpose of each section in the file.

- Windows 95 Device Information Files Overview
- General INF File Format
- [Version] Section
- [Manufacturer] Section
- [Manufacturer Name] Section
- [Install] Section
- [ClassInstall] Section

- [Modules] Section
 - [Strings] Section

Appendix DD MSBATCH.INF Parameters

This appendix provides definitions of the setup batch script parameters and provides sample setup scripts for these scenarios.

- Setup Batch Script Parameters
- MSBATCH.INF Sample File
 - Windows 95 Network Adapter INF Files Summary

Appendix EE Network Configuration Settings

This appendix lists typical settings in configuration files for various networks with Windows 95 installed.

- Configuration Settings for Microsoft Networks
- Configuration Settings for NetWare Networks
- Artisoft LANtastic Real-Mode Configuration Settings
- Banyan VINES Real-Mode Configuration Settings
- Beame and Whiteside-NFS Real-Mode Configuration Settings
- DEC Pathworks Real-Mode Configuration Settings
- IBM OS/2 LAN Server Real-Mode Configuration Settings
- SunSelect PC-NFS Real-Mode Configuration Settings
 - TCS 10-Net Real-Mode Configuration Settings

Appendix F Macintosh and Windows 95

This appendix describes how Microsoft Windows NT Server Services for Macintosh® makes it possible for computers running Windows 95, MS-DOS, Windows, Windows for Workgroups, Windows NT, and Apple® Macintosh to share files and printers. When Services for Macintosh is set up on a computer running Windows NT Server, that computer can function as an AppleTalk® router, and Macintosh computers running the Macintosh operating system can function as workstations.

- Windows NT Services for Macintosh
 - Tips for Switching From an Apple Macintosh to Windows 95

Appendix FF HOSTS and LMHOSTS Files for Windows 95

This appendix describes how to modify HOSTS and LMHOSTS files to support address-to-name resolution in Windows 95 networking.

- Setting Up HOSTS Files

- Setting Up LMHOSTS Files

Appendix GG Shortcuts for Windows 95

This appendix summarizes the shortcuts that are built into Windows 95 for using the keyboard and mouse to quickly accomplish common actions. This includes a summary of some accessibility shortcuts.

- Shortcuts for Objects, Folders, and Windows Explorer
- General Keyboard-Only Commands
- Accessibility Shortcuts
 - Microsoft Natural Keyboard Keys

Appendix HH Accessibility

This appendix describes the new features in Windows 95 that support enhanced accessibility. This appendix also provides information about products and services which make Windows 95 more accessible for people with disabilities.

- Accessibility in Windows 95: Overview
- Windows 95 Accessibility Features
- Microsoft Services for People Who Are Deaf or Hard-of-Hearing
- Keyboard Layouts for Single-Handed Users
- Microsoft Documentation on Audiocassettes and Floppy Disks
- Products for People Who Are Blind or Have Low Vision
- Getting More Information
 - Using Chat

Appendix J Windows 95 Resource Directory

This appendix provides information on obtaining additional support and information for Windows 95. This appendix also discusses the different Microsoft sources available for support and assistance to help you get the most out of using Microsoft products. These sources include Tech Net, the Microsoft Developer Network, Microsoft Solution Providers, the Microsoft Certified Professional program, and Microsoft Consulting Services.

- Online Information About Windows 95
- Getting Answers to Your Technical Questions
- Windows 95 SDK Information
- Microsoft TechNet
- Microsoft Solution Providers
- Microsoft Certified Professional Program
- Microsoft Technical Education

- Microsoft Consulting Services
- Microsoft Knowledge Base
- Microsoft Software Library
- Microsoft CompuServe Forums
- Obtaining Drivers and Information Electronically
 - Resources for ICM

Appendix K Microsoft Systems Management Server

This appendix provides information about Microsoft Systems Management Server and how it can be used to install and maintain Windows 95 on networked computers.

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