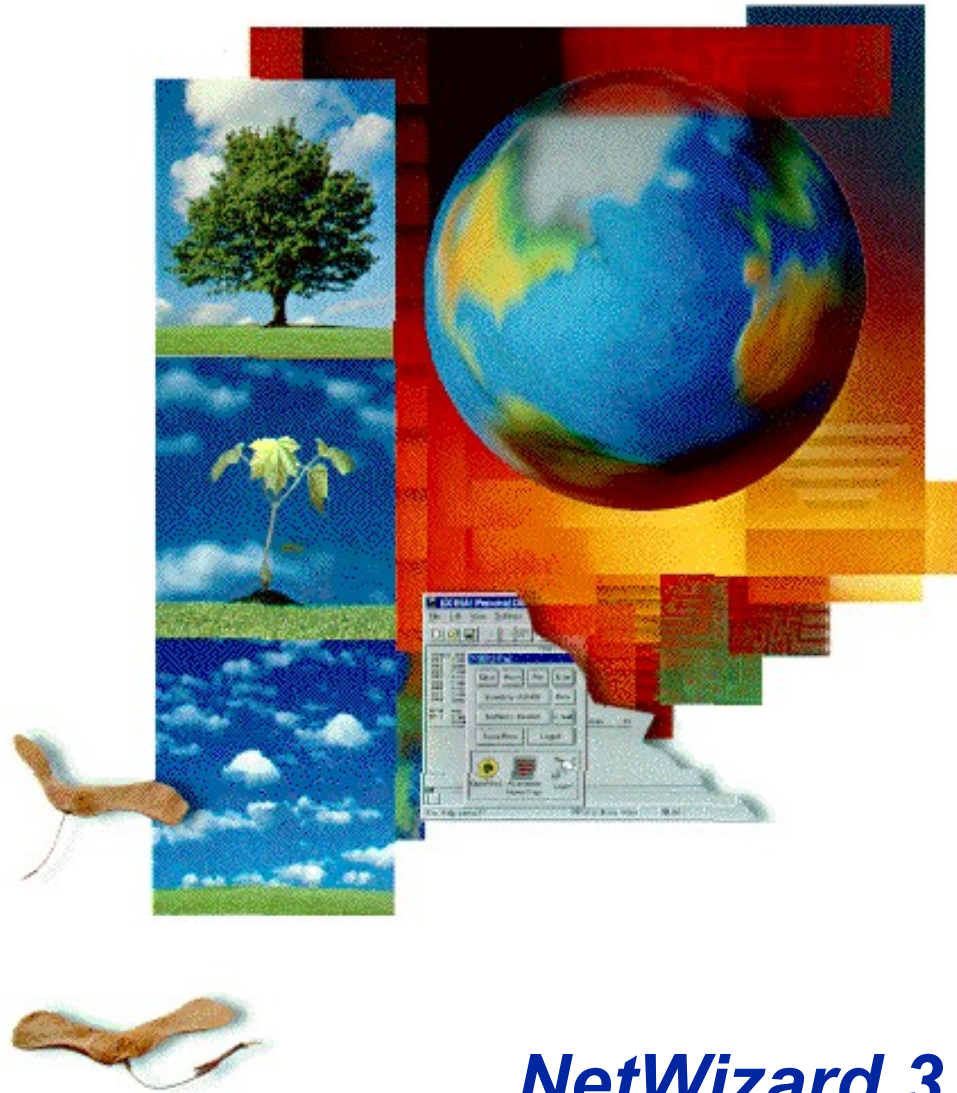


# Distributed Software Management



*NetWizard 3.1*

 **Attachmate**

# Distributed Software Management

from

Attachmate

# NetWizard

## What is software management

- **Electronic software distribution**
- **Remote configuration, support, and troubleshooting**
- **Hardware and software inventory**
- **Software monitoring**

# NetWizard

What is software management

Software management cost analysis

❑ \$60 per application per year to manually install and update software

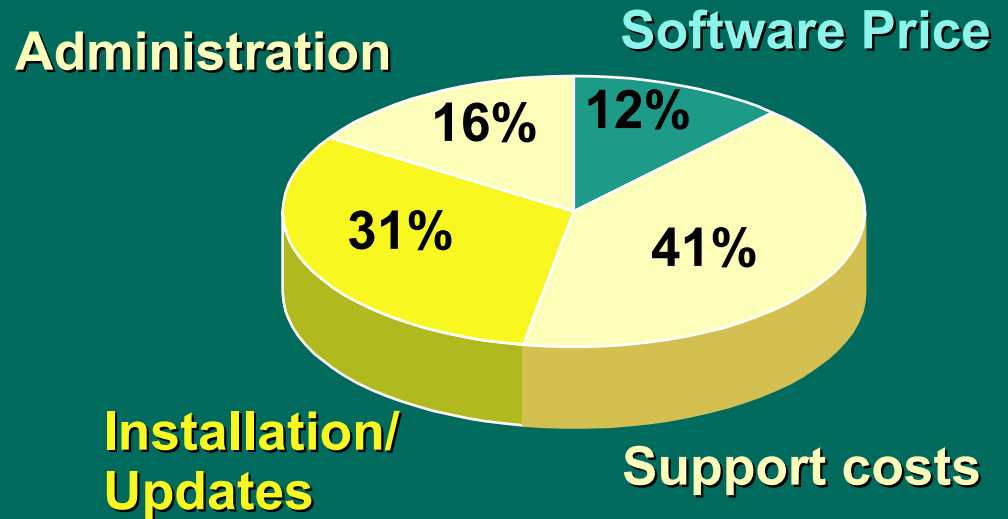
❑ \$40 per desktop to manually inventory a network

❑ \$320,000/year for a 1000 node network with 4 applications per node

# NetWizard

What is software management

Software management cost analysis



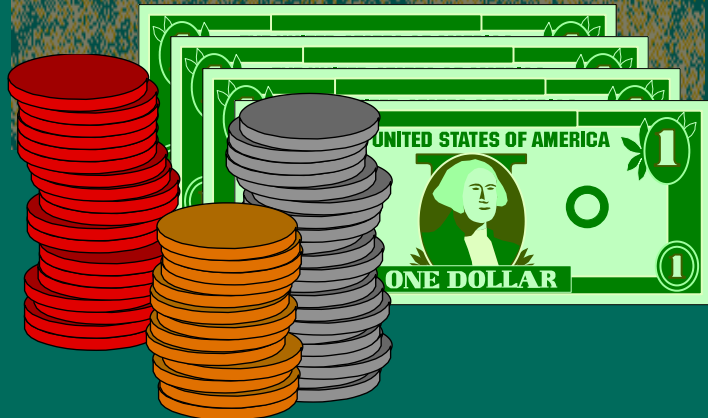
Source: Gartner Group

# NetWizard

What is software management

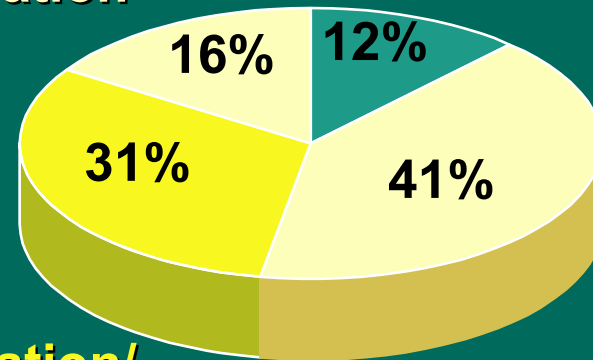
Software management cost analysis

NetWizard saves money



Administration

Software Price



Installation/  
Updates

Support costs

Source: Gartner Group

# Introducing NetWizard

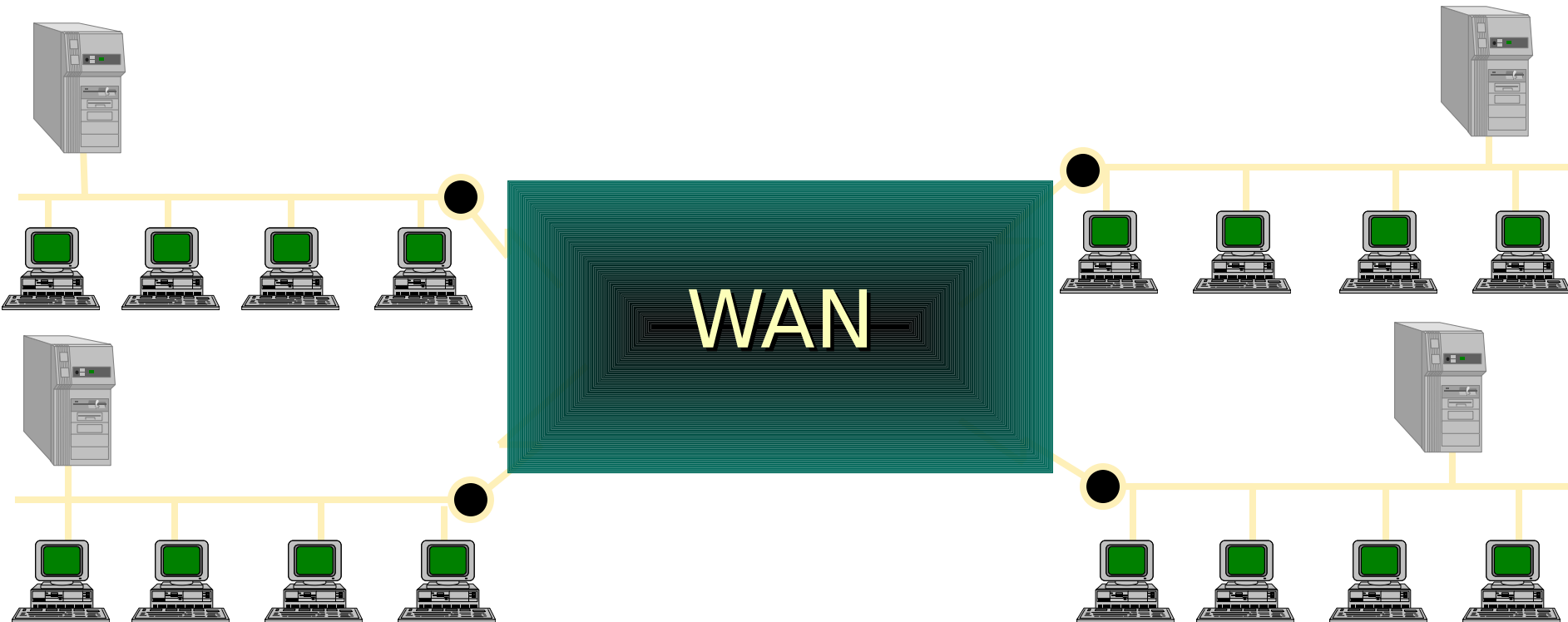
- ❑ *The software management solution for LANs and WANs*
- ❑ *Scalable to any size network*
- ❑ *Works in your existing networked computing environment*

**how?....**

# Peer to Peer Structure

Put the NetWizard manager on any Windows PC in the network

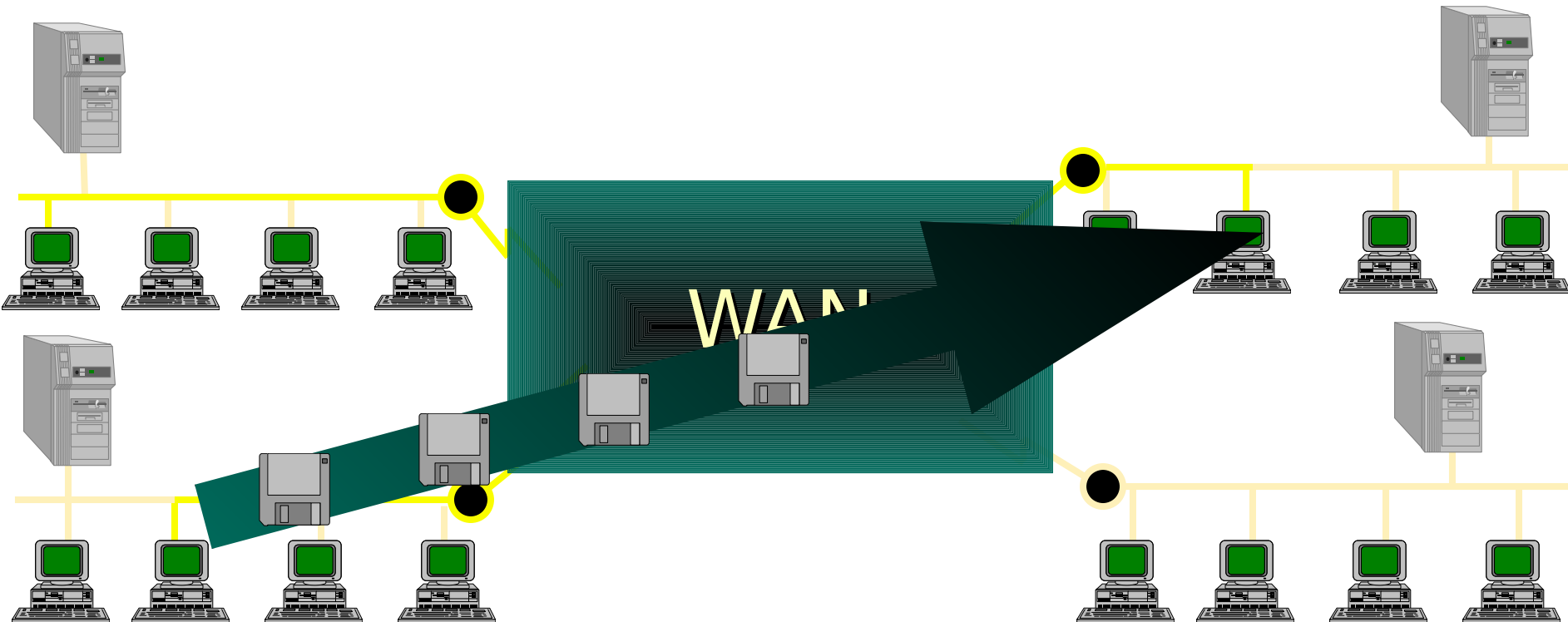
Put Agents on any DOS, Windows 3.x, '95, NT, or Mac PC





# Peer to Peer Structure

**Flexibility: Move files from any node to any other node...**



# Peer to Peer Benefits

## Operates at the transport level

- No need for Server to be running or even present*
- Send a distribution to a remote PC without being able to see the remote Server it is attached to*

## Independent of file server domains and Network Operating System

## Supports most LAN transport protocols

- Runs on any network using IPX, IPC, NetBIOS, or TCP/IP transport protocols*
- Supports Multi-protocol support*

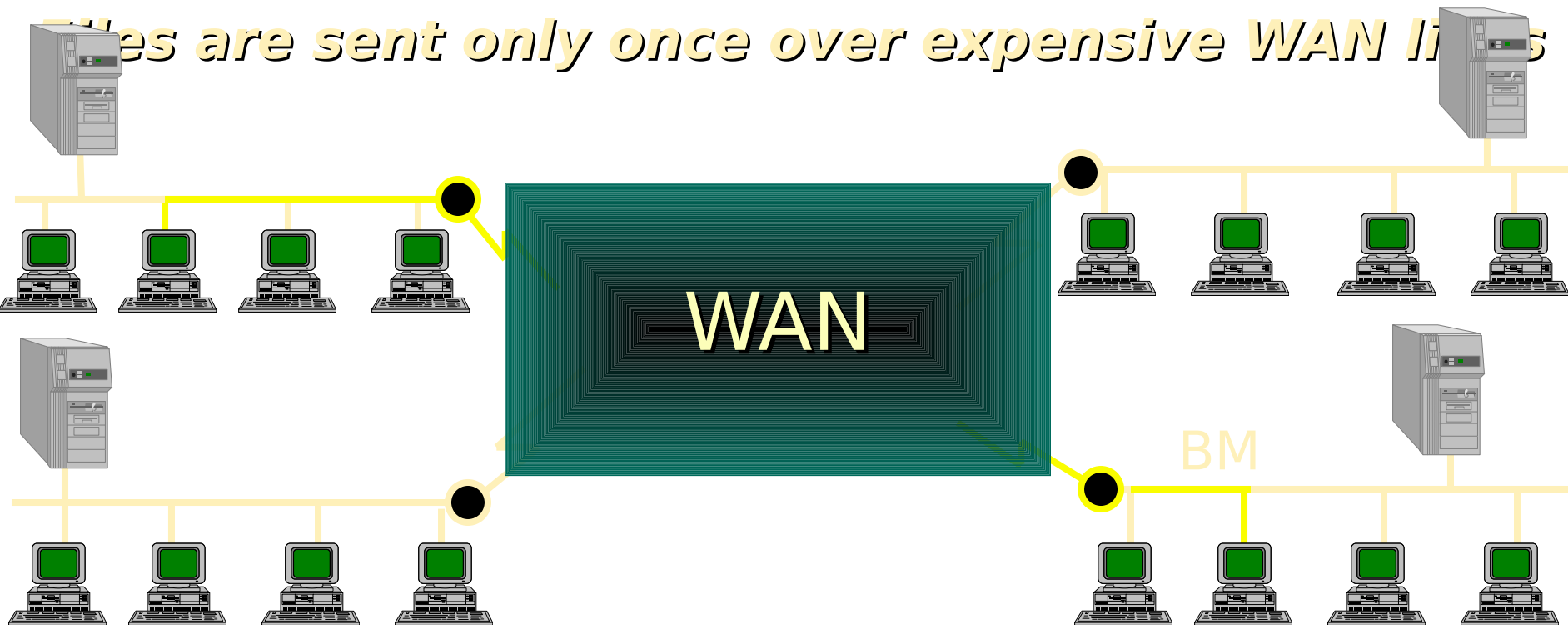
# Branch Managers

**Scalability: use on any size network**

You won't outgrow NetWizard

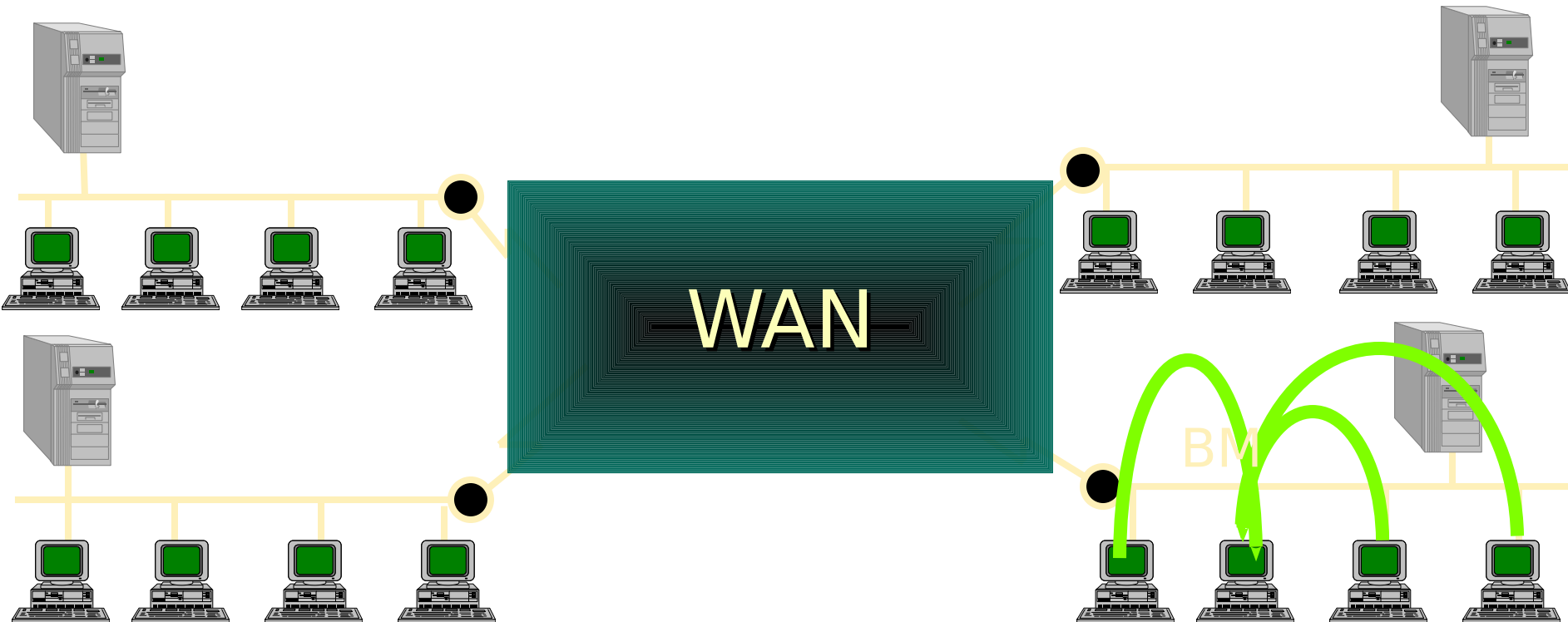
**Efficiency: minimize repetitive WAN traffic**

*Files are sent only once over expensive WAN links*



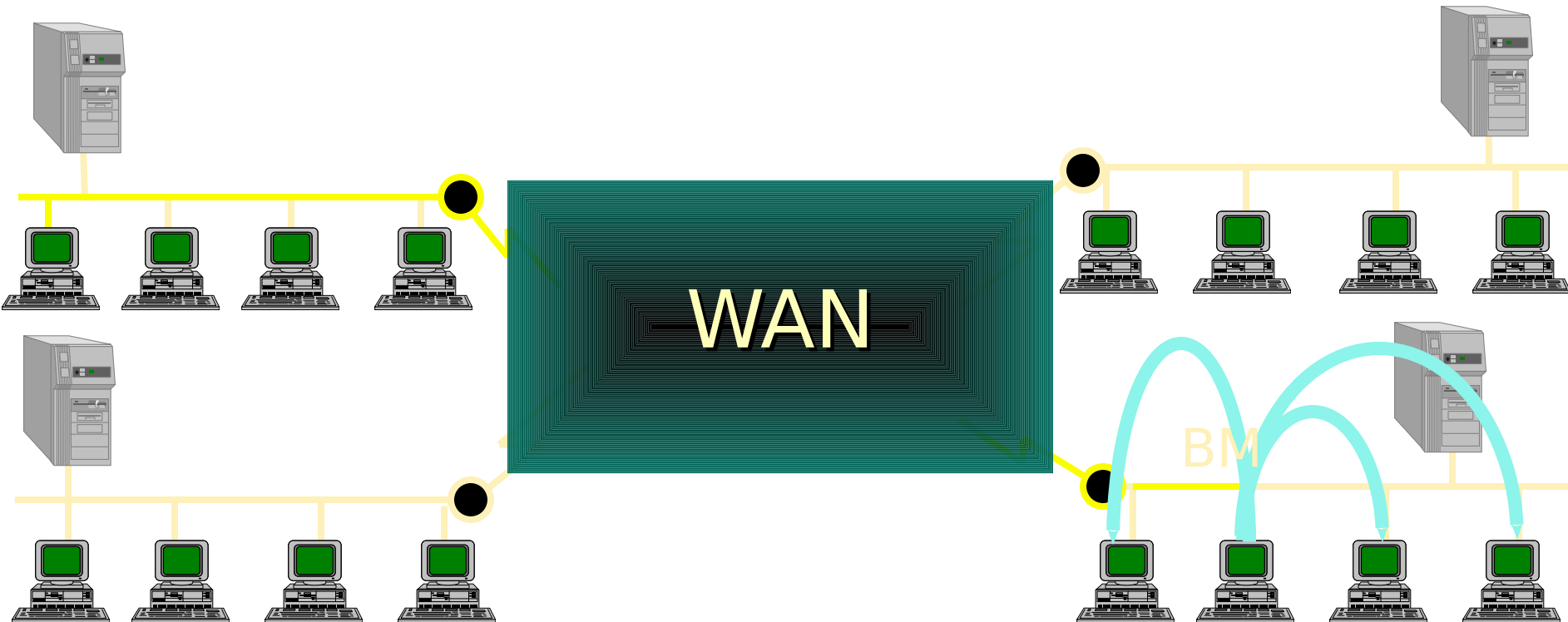
# Branch Managers

BM receives distributions from main manager once and distributes them to the proper nodes in its branch...



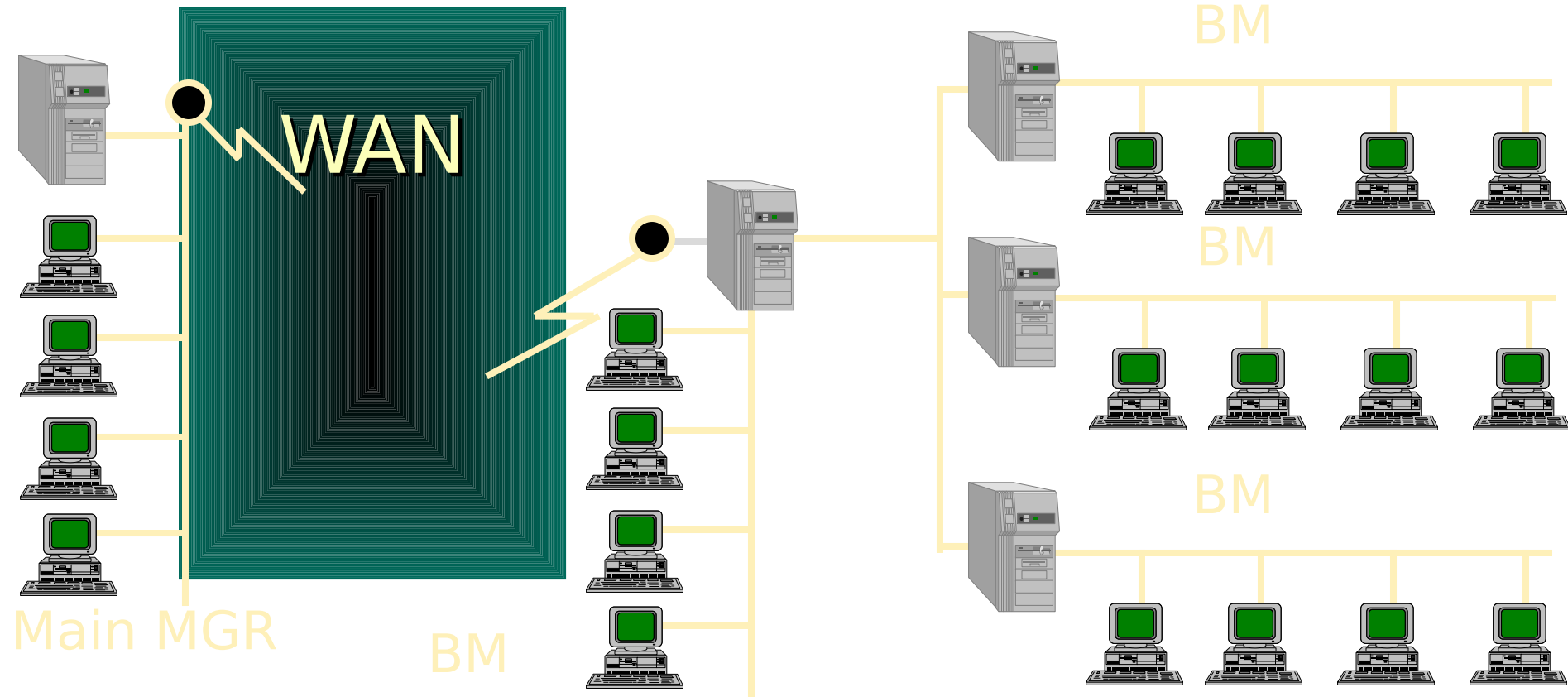
# Branch Managers

BM collects inventory and metering information from remote Agents and sends it to the main NetWizard Manager once over expensive WAN links.



# Branch Manager

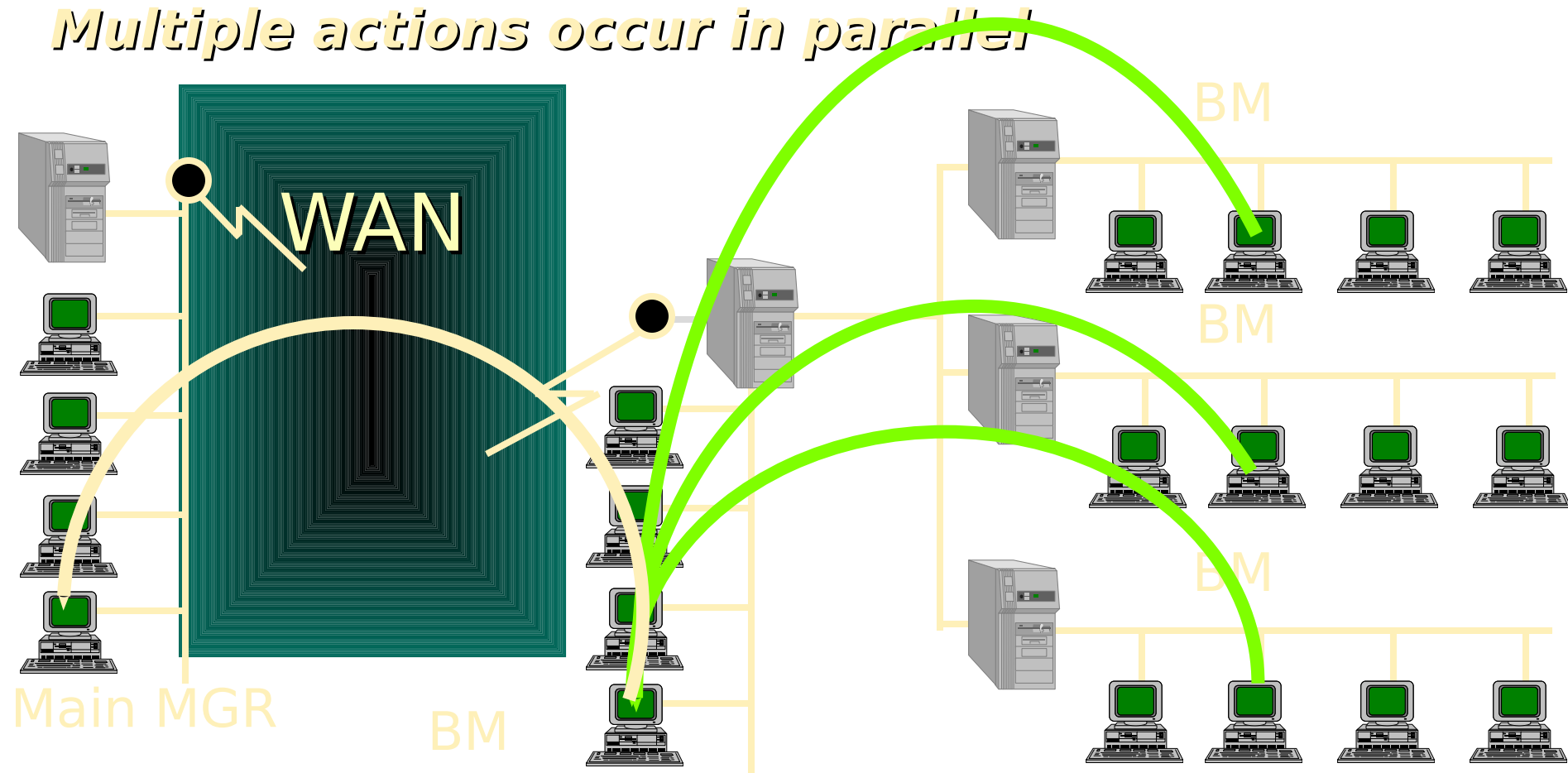
Cascaded BMs allow Distribution Fan Out



# Branch Managers

Cascaded BMs allow Distribution Fan Out

*Multiple actions occur in parallel*

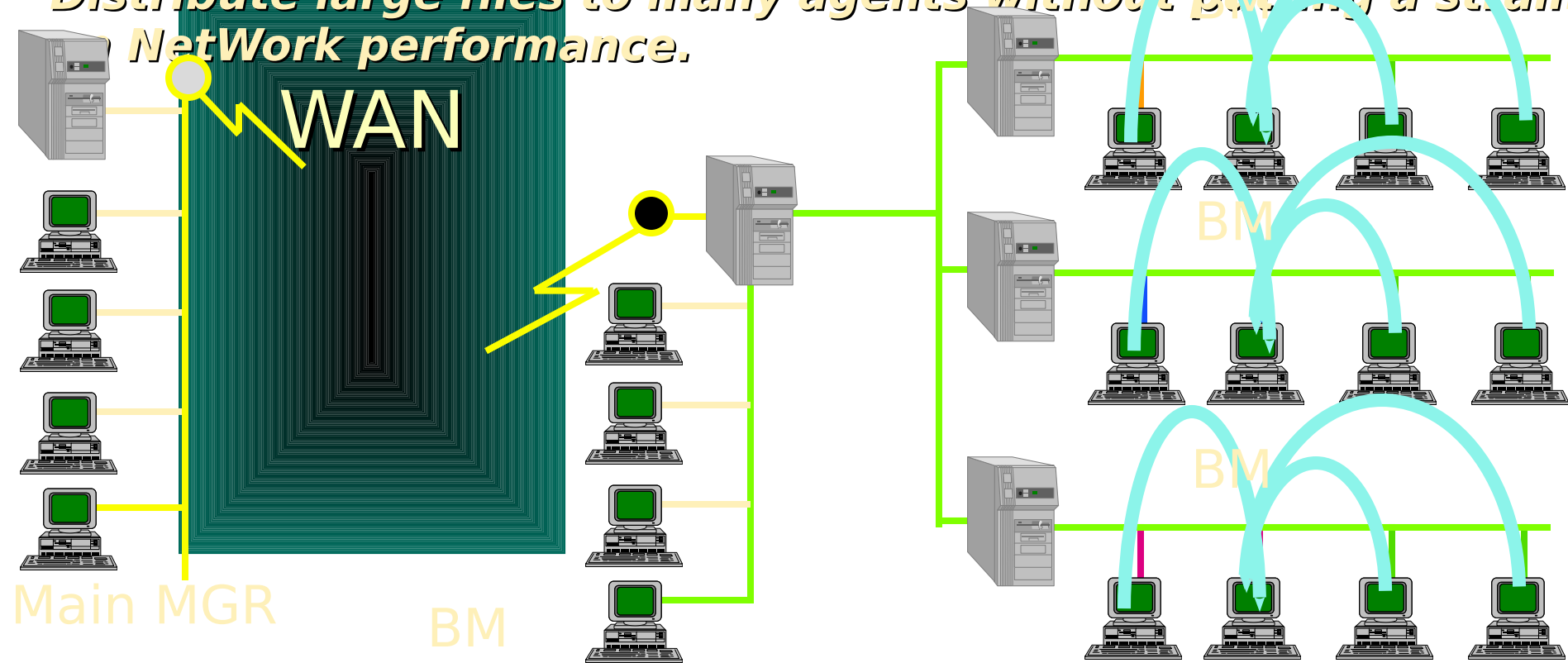


# Branch Managers

## Cascaded BM's allow Distribution Fan Out

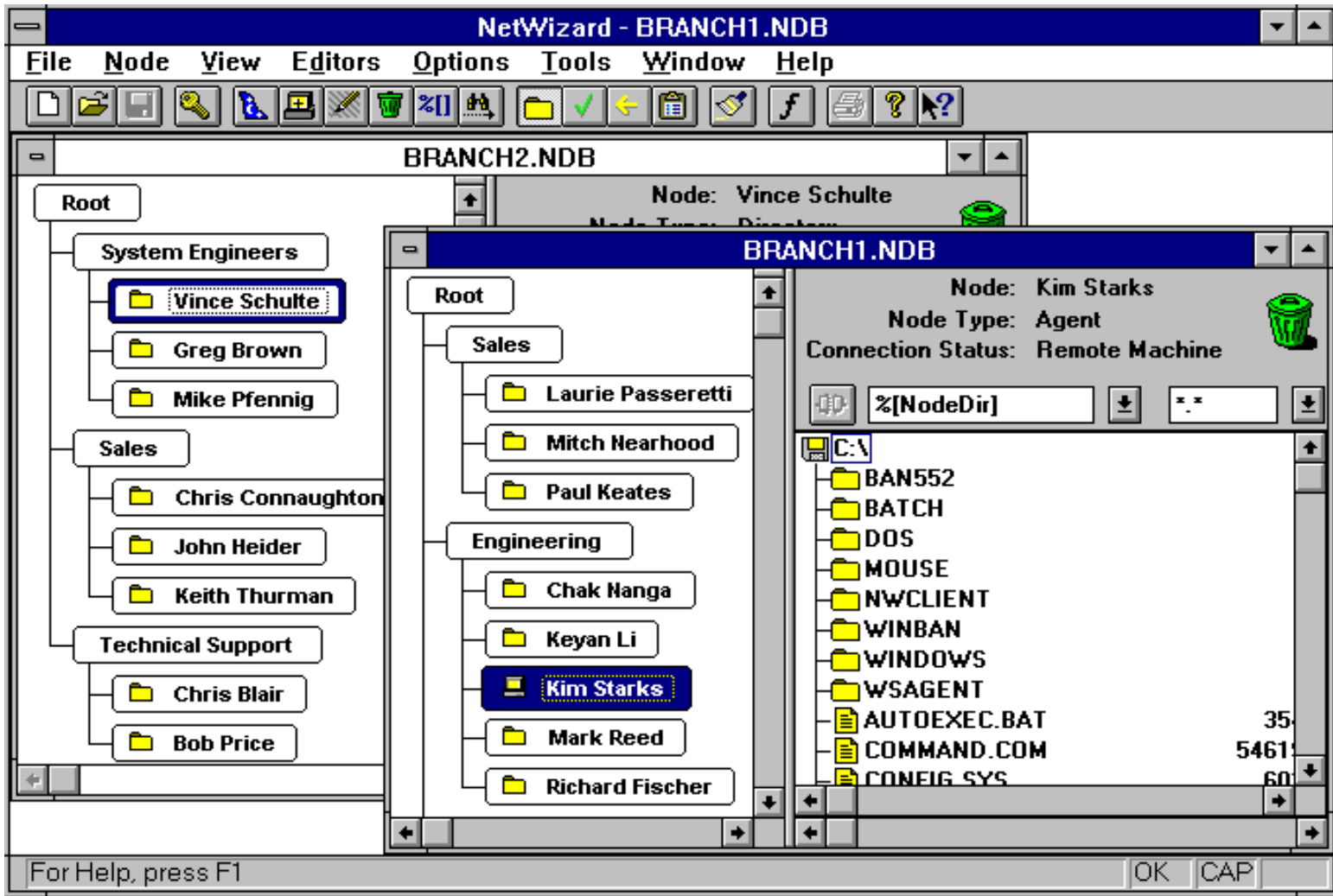
Multiple actions occur in parallel

*Distribute large files to many agents without putting a strain on Network performance.*





# Branch Navigator



# Safe Software Management

## ***Distribution Automatic Rollback and Recovery***

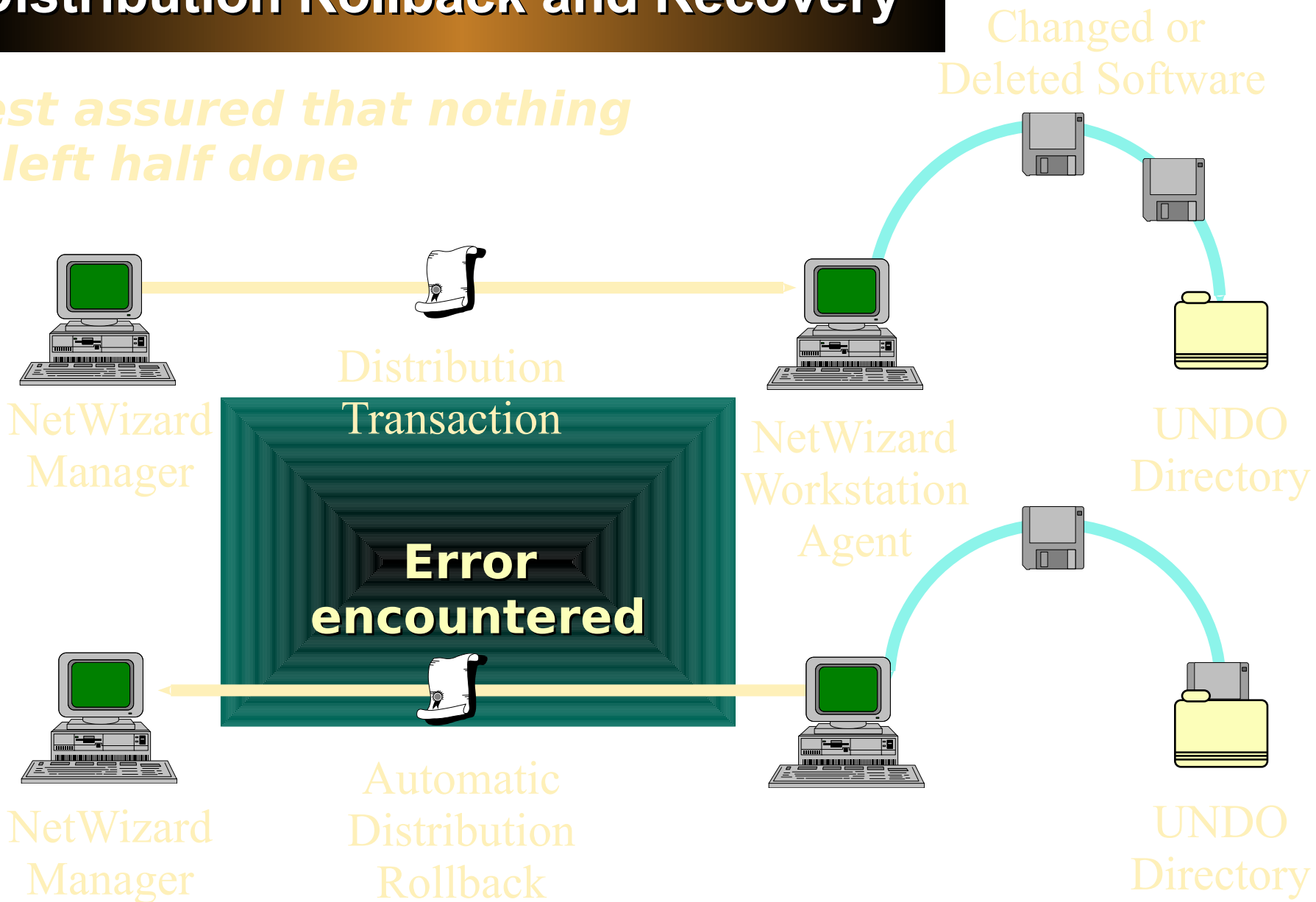
*When an error condition is encountered, distribution is automatically undone, returning the Agent PC to its previous condition. Target PC is left unaffected.*

## ***Distribution UNDO Capability***

*At Administrator's discretion, distributions can be rolled- back off of the Agent's PC.*

# Distribution Rollback and Recovery

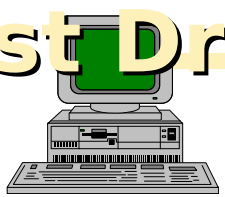
*Rest assured that nothing is left half done*



# Distribution Undo

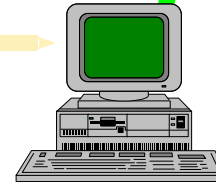
Correct mistakes easily,  
just Drag and Drop

Changed or Deleted Software

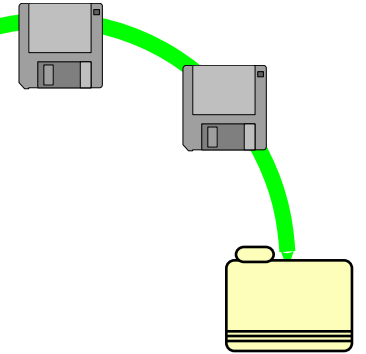


NetWizard  
Manager

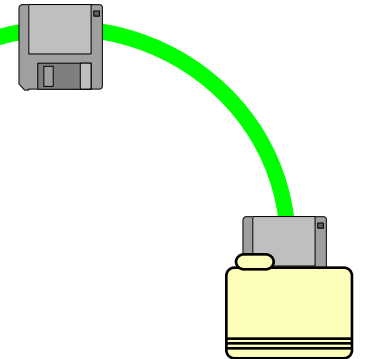
Distribution  
Transaction



NetWizard  
Workstation  
Agent

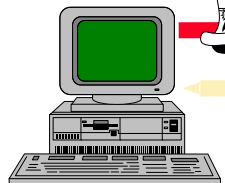


UNDO  
Directory



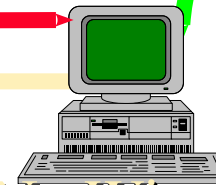
UNDO  
Directory

UNDO Script



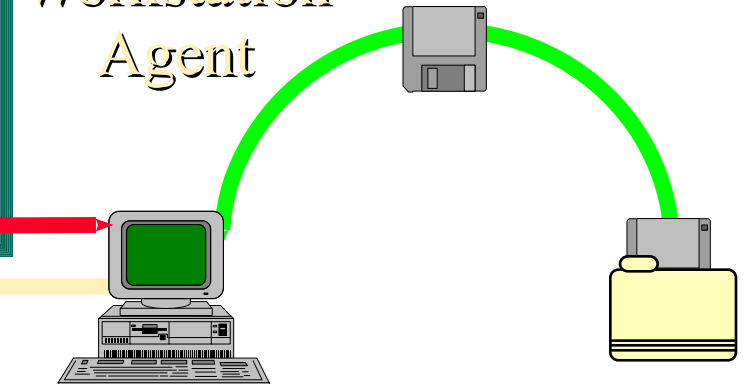
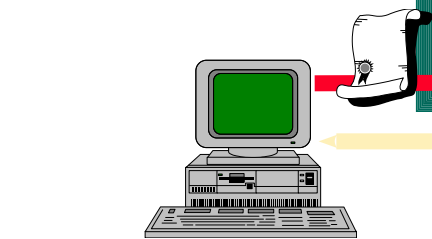
NetWizard  
Manager

Distribution  
Rollback

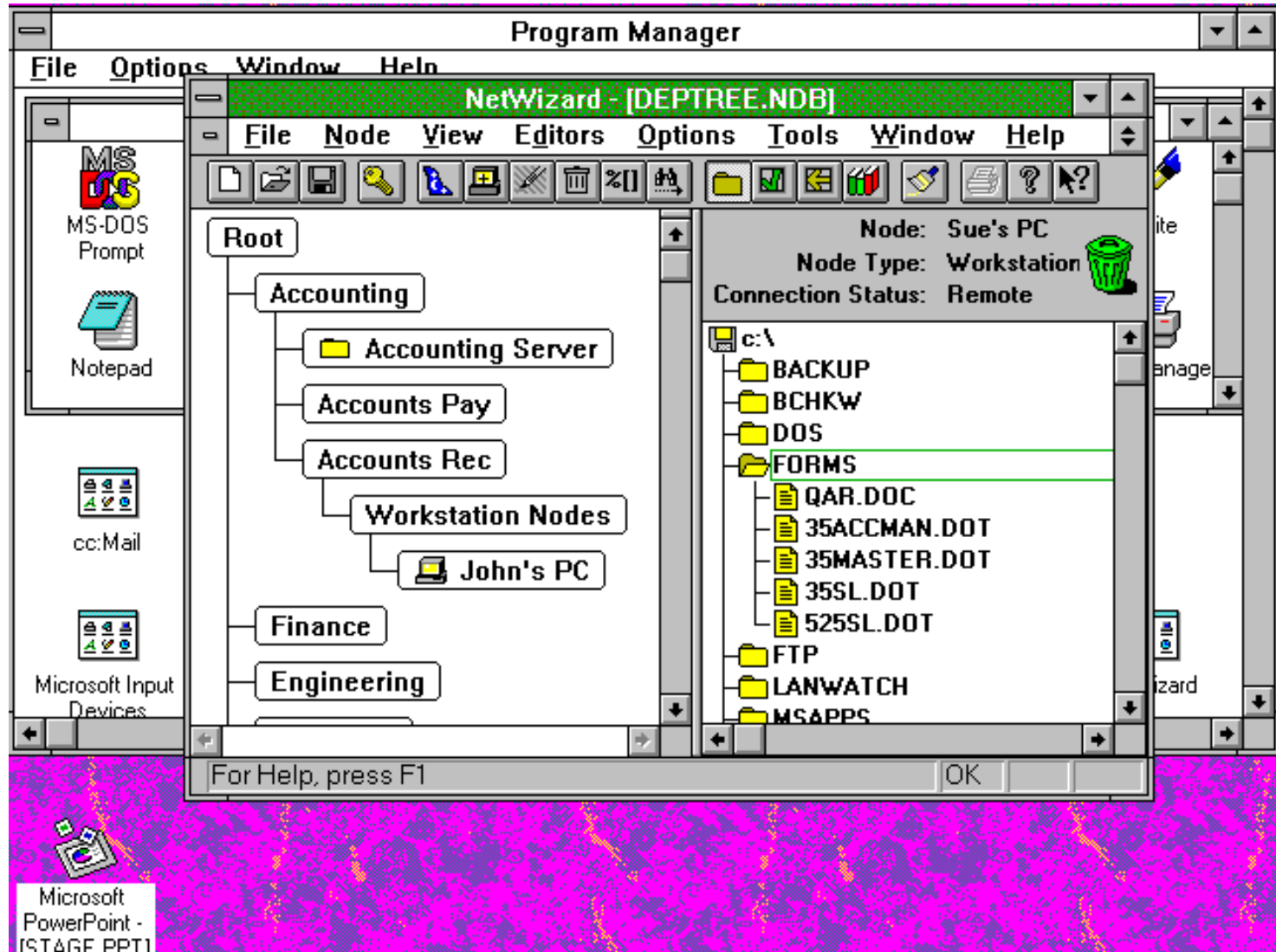


NetWizard  
Workstation  
Agent

UNDO  
Directory



# NetWizard's User Interface



# Hardware Inventory view

The screenshot shows the NetWizard interface for a node named 'Cincinnati-SE'. The window title is 'NetWizard\SUPERVISOR - [NETWORK.NDB]'. The menu bar includes File, Node, View, Editors, Options, Tools, Window, and Help. The toolbar contains various icons for file operations and navigation. The main display area shows the hardware inventory for the selected node.

**Node:** Cincinnati-SE  
**Inventory Date:** 09/03/96 13:44

**Category:** Hardware  
 Display Variable Names

Computer	NEC /Phoenix
BIOSVersion	LAP486SL Version 1.03 04/19/90
CPU	486DX
Memory	15360
Video	VGA, Western Digital 90C24a, 1024K
Operating System	
C:\DOS	7.0
C:\Windows	95 Version 4.00.950
Mouse	Microsoft® Pointing Device Software, Microsoft Pointing Device Driver, Ver
Ports	
LPTPorts	1
COMPorts	1
Drives	
3.5	A:
Fixed	C:
Disk Space	
Total Space	
C	790016KB
Total	790016KB
Free Space	

For Help, press F1

# Hardware Inventory view

The screenshot shows the NetWizard interface with the hardware inventory view selected. The window title is "NetWizard\SUPERVISOR - [NETWORK.NDB]". The menu bar includes File, Node, View, Editors, Options, Tools, Window, and Help. The toolbar contains various icons for file operations and navigation. The left pane shows a tree view of the network structure. The main pane displays the hardware inventory for node "Cincinnati-SE" as of "09/03/96 13:44". The category is set to "Hardware". The inventory is organized into several sections: COMPorts, Drives, Disk Space, and Network Information. The Drives section shows 3.5 and Fixed drives. The Disk Space section shows total and free space for drive C. The Network Information section shows details about the network configuration, including the version, network number, node number, NICType, and TCP/IP description and address.

Node: Cincinnati-SE  
Inventory Date: 09/03/96 13:44

Category: Hardware

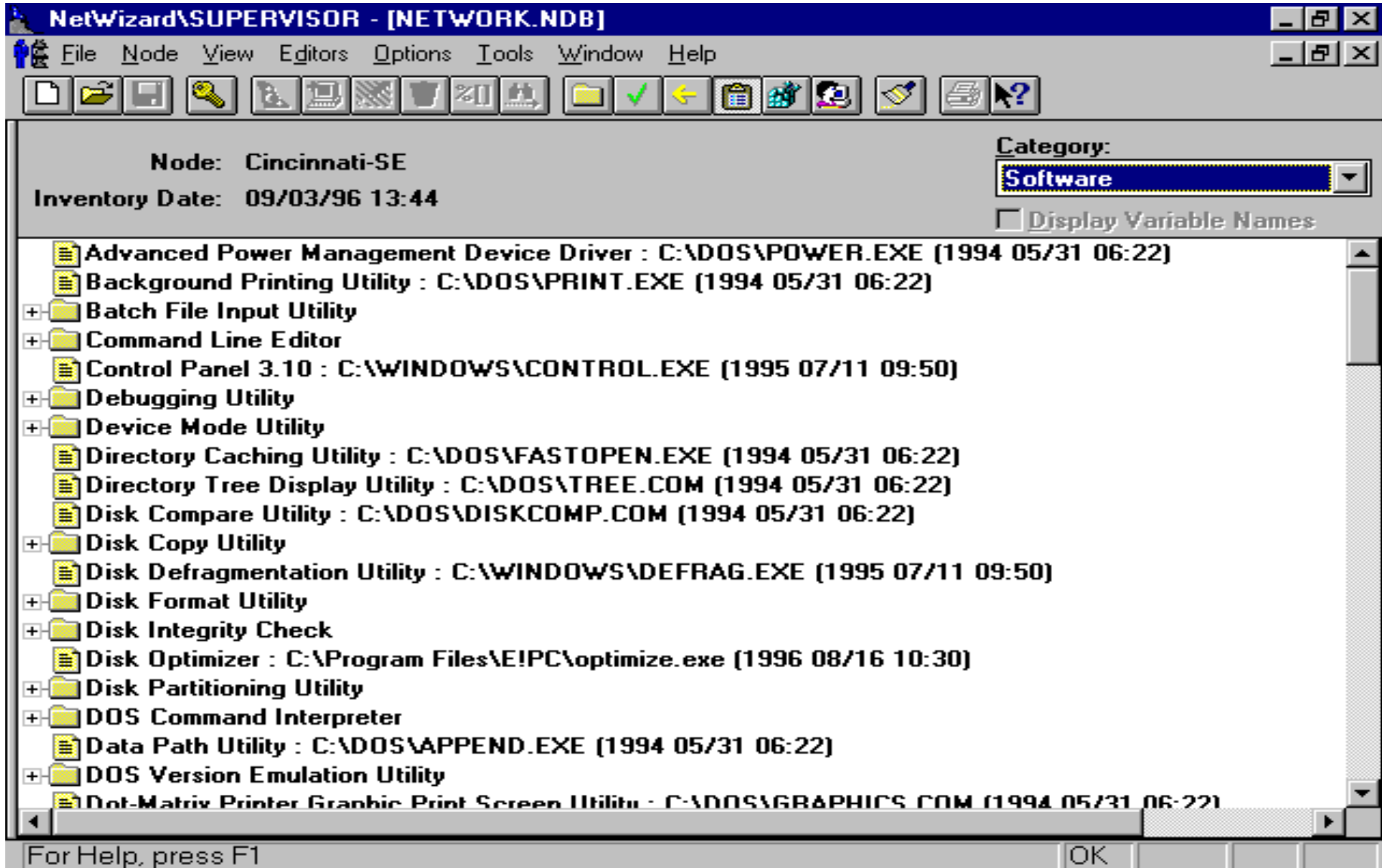
Display Variable Names

COMPorts	1
Drives	
3.5	A:
Fixed	C:
Disk Space	
Total Space	
C	790016KB
Total	790016KB
Free Space	
C	547024KB
Total	547024KB
Network Information	
Network	Novell, Version 3.26.00
NetworkNumber	00000050
NodeNumber	0080C7D04A86
NICType	NDIS 3.1 DRIVER
TCPIPDescription	Microsoft Windows Sockets Version 1.1.
TCPIPHostName	SEPC-2.cin.dca.com
TCPIPAddress	129.231.50.58

For Help, press F1

OK

# Software Inventory view



The screenshot shows a window titled "NetWizard\SUPERVISOR - [NETWORK.NDB]". The menu bar includes "File", "Node", "View", "Editors", "Options", "Tools", "Window", and "Help". The toolbar contains various icons for file operations and navigation. The main area displays the following information:

- Node: Cincinnati-SE
- Inventory Date: 09/03/96 13:44
- Category: Software (selected in a dropdown menu)
- Display Variable Names

The software inventory list includes the following items:

- Advanced Power Management Device Driver : C:\DOS\POWER.EXE (1994 05/31 06:22)
- Background Printing Utility : C:\DOS\PRINT.EXE (1994 05/31 06:22)
- + Batch File Input Utility
- + Command Line Editor
- Control Panel 3.10 : C:\WINDOWS\CONTROL.EXE (1995 07/11 09:50)
- + Debugging Utility
- + Device Mode Utility
- Directory Caching Utility : C:\DOS\FASTOPEN.EXE (1994 05/31 06:22)
- Directory Tree Display Utility : C:\DOS\TREE.COM (1994 05/31 06:22)
- Disk Compare Utility : C:\DOS\DISKCOMP.COM (1994 05/31 06:22)
- + Disk Copy Utility
- Disk Defragmentation Utility : C:\WINDOWS\DEFRAG.EXE (1995 07/11 09:50)
- + Disk Format Utility
- + Disk Integrity Check
- Disk Optimizer : C:\Program Files\E!PC\optimize.exe (1996 08/16 10:30)
- + Disk Partitioning Utility
- + DOS Command Interpreter
- Data Path Utility : C:\DOS\APPEND.EXE (1994 05/31 06:22)
- + DOS Version Emulation Utility
- Dot-Matrix Printer Graphic Print Screen Utility : C:\DOS\GRAPHICS.COM (1994 05/31 06:22)

At the bottom of the window, there is a status bar with the text "For Help, press F1" and a button labeled "OK".



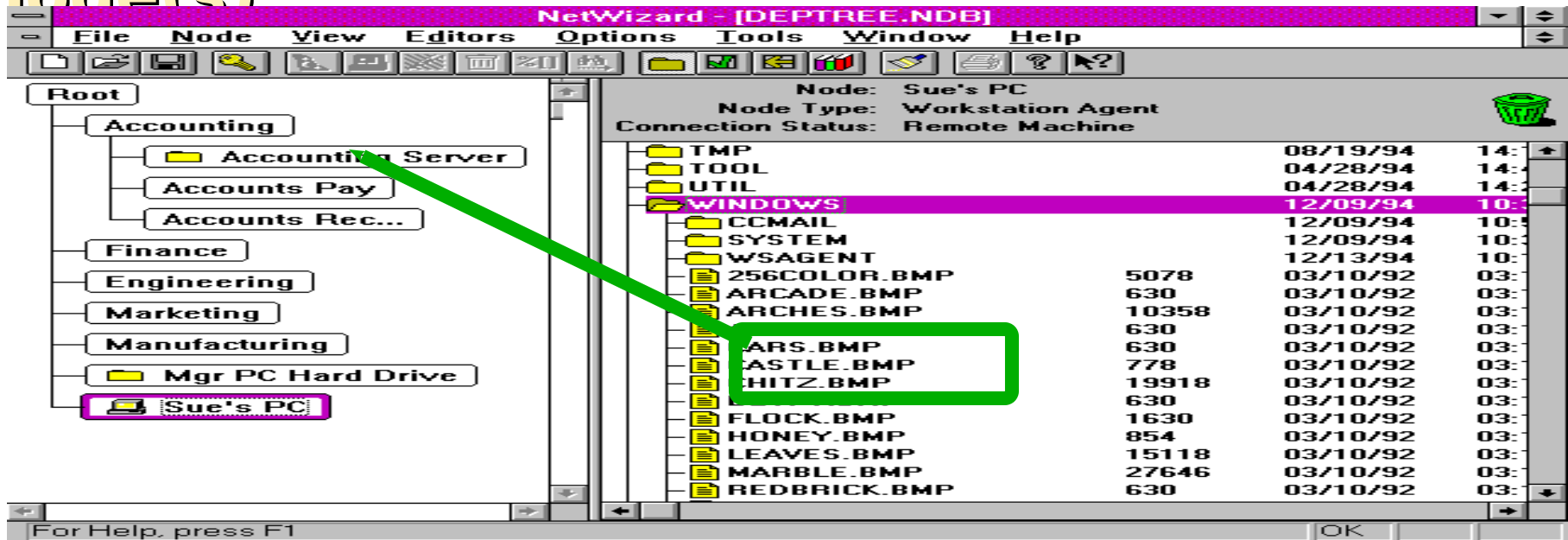
# Real-Time File Management

**Double-Click to open a directory or file on a remote node and view or edit its contents**

- ▣ **Navigate interactively through agent directory trees**
- ▣ **Just like using File Manager on your workstation**
- ▣ **All in real time, without disturbing your users**

# Drag & Drop Distributions

To Copy or Delete files and directories, simply drag the desired icon to another node(s)



- Quickly and effortlessly copy files from node to node(s) or delete files at a node(s) interactively.
- Directory structure is automatically recreated at the target node, if not already present.

# Node Status Screen

Extensive Log File of Node selected in the Logical Tree, showing all distributions sent to the Node and the status of each

- NUL Successful
- NUL Failed
- NUL Undone
- NUL Pending

NetWizard - [DEPTREE.NDB]

File Node View Editors Options Tools Window Help

Root

- Accounting...
- Finance
- Engineering
- Marketing
- Manufacturing
- Mgr PC Har
- Sue's PC

Status for: Sue's PC

Control File Location: C:\NWIZARD\WSAGENT\WINAGENT\WDESK

- FileService, CopyFile
  - \\LAB\_SERVER\USER\_1\VG5\MEDIA\WMEDIA\STAGE\2F2E86D3\
- Untitled, vmgr, C:\NWIZARD\VTREE.NDB, Workstation, 2F317E95,1995 02
- SystemEditor, WinExec
  - NoWait, c:\windows\write.exe
- SystemEditor, SendKeys
  - , , 3812, 2146, 4b25, 2d58, 1c0d, 3812, 2e43, 1245, 3812, 2e43, 124
- Clean disk script, vmgr, C:\NWIZARD\DEPTREE.NDB, Workstation, 2F37E...
- SystemEditor, AddGroup
  - EXAMPLE,
- SystemEditor, AddItem
- SystemEditor, AddItem
- SystemEditor, MessageBox
- FileService, CopyFile
  - \\XXXXXX, \\WDESK\c:\
- The file \\XXXXXX (The file could not be located.) is invalid
- send keystrokes, vmgr, C:\NWIZARD\DEPTREE.NDB, Workstation, 2F37EA...
- SystemEditor, WinExec
  - NoWait, c:\windows\write.exe
- SystemEditor, SendKeys
  - , , 3812, 2146, 4b25, 2d58, 1c0d, 3812, 2e43, 1245, 3812, 2e43, 124

For Help, press F1

OK

# ODBC Database Integration



*Export NetWizard information to any ODBC Database, such as the Corporate SQL Database (Oracle, dBase, Sybase)*

**Software Monitoring**

Metering List: Edit List

Sample Test Application

Statistics:

- Number of Nodes : 52
- Maximum Concurrent Users : 4

Status: 09/29/94

For Help, press F1

**Hardware Inventory**

Node: Sue's PC  
Inventory For: 02/07/95 13:32

- Computer: Everex/American Megatrends
- BIOSVersion: Copyright 1987, American Megatrends Inc.All Rights Reserved.402
- CPU: 80386
- Memory: 4352
- Video: VGA
- Operating System: DOS 6.0
- Windows 3.10
- Microsoft® Windows(TM) Operating System, Microsoft Mouse driver
- Mouse
- Ports: LPTPorts: 3, COMPorts: 1
- Drives: 5.25, 3.5, Fixed, Mapped
- Disk Space: Total Space: 251457536, C: 251457536, Total: 251457536

For Help, press F1

**Distribution Status**

Distribution:

- rollback
- send keys
- send keys
- Clean disk script
- send keystrokes
- File Update Distribution

4 Total Nodes Found  
2 Nodes Pending  
2 Nodes Succeeded  
0 Nodes with Errors  
0 Nodes Pending Undo  
0 Nodes Undone

Nodes:  All,  Selected

Node Names:

Accounting Server	Succeeded
John's PC	Pending
Mgr PC Hard Drive	Succeeded

Marketing  
Manufacturing

For Help, press F1

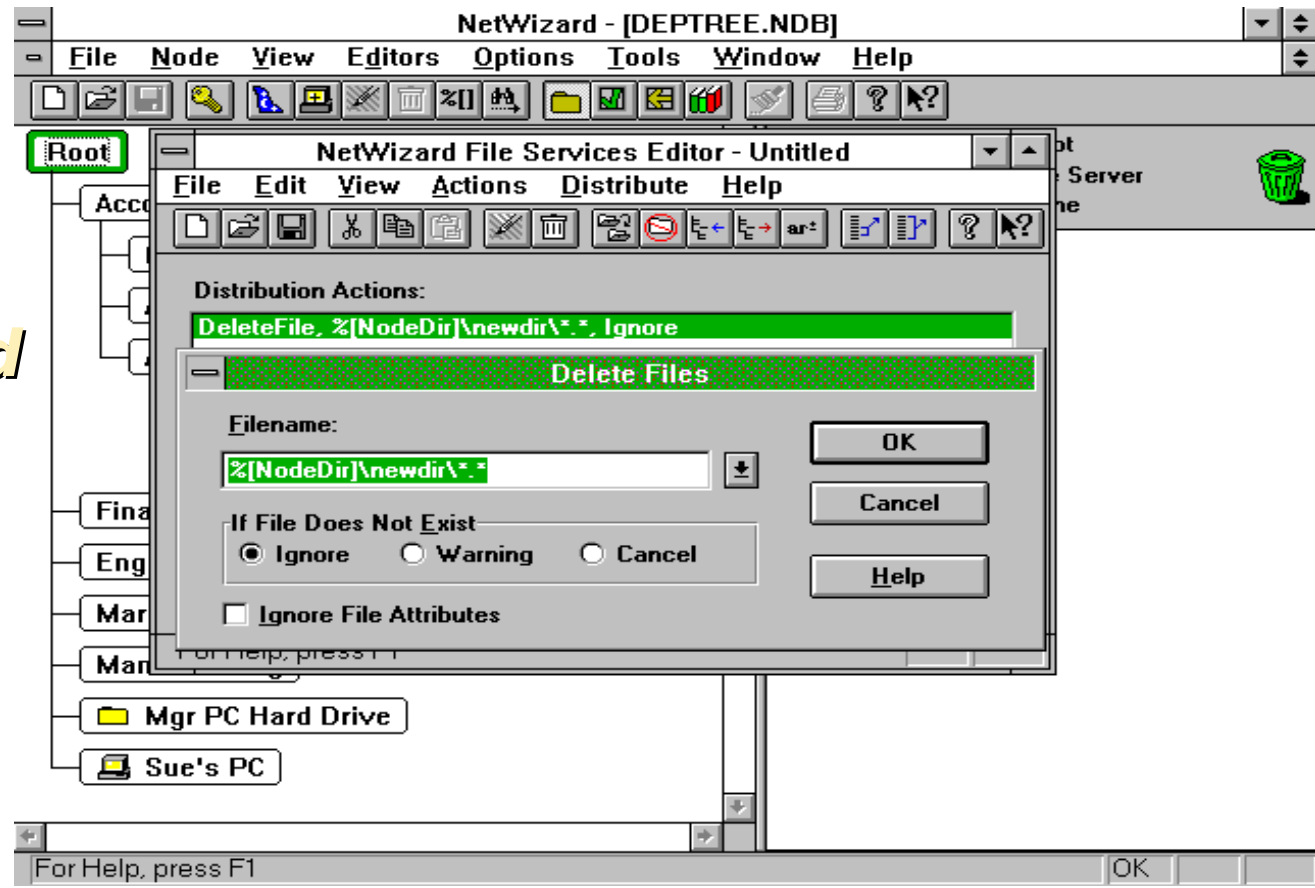
# Visual Script Editors

Powerful Visual Script Editors with built in Distribution Actions, make creating complicated scripts a breeze

*No script language to learn*

*No complicated syntax*

*Just fill in the blanks*



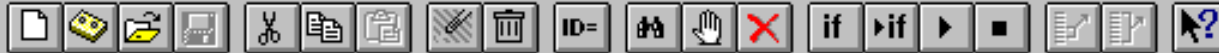
# *NetWizard Package Recorder*

**Package Recorder greatly reduces script development time**

- Record installation of shrink-wrapped or custom application using Package Recorder
- Use Package Editor to automatically generate a NetWizard distribution script from recording
- Add conditional logic & special commands using NetWizard Visual Script Editors

NetWizard Package Editor - MSOFFICE.PKG

File Edit View Actions Distribute Help



Microsoft Office

Distribution Actions:



Verify that there is sufficient disk space for all of the files in the distribution



IF %[DISK\_SPACE] = False



Add an error entry in the status log and fail the distribution!



ENDIF



Compressed Files



System File Modifications

For Help, press F1

NetWizard Package Recorder



Recordings...

Help

About...

Exit

Idle

# ***License Enforcement***

## **Eliminates risk of license violations**

***License enforcement for several licensing policies:***

**Concurrent use, Site license,  
Per user or per workstation, or  
Suite licenses**

***Varying enforcement levels:***

**Silent , Warning , or Strict**

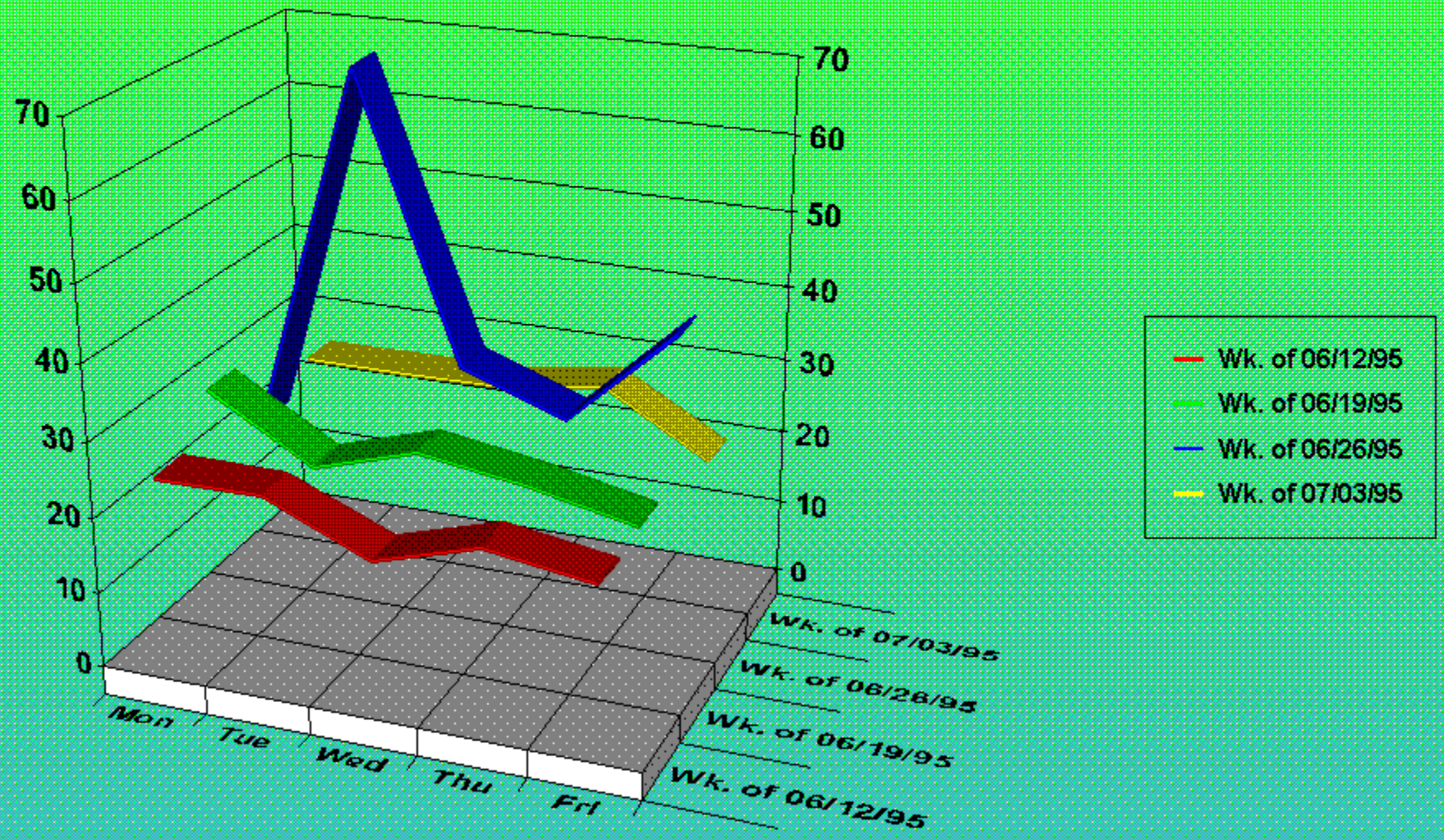
***License queuing***

***Prioritized license distribution***

***Usage time limits***



# Usage History for OpenMind for the Week(s) 06/12/95 - 07/03/95



Capabile of installing **all** 32-bit applications or application updates.

Supports: **Windows 95 & NT**

- Windows long-file names
- Windows registration database

Ideal for **installing** Windows  
**95**

# Migrating to Windows 95 using NetWizard

**Step 1 - Get control of your desktops**

**Step 2 - Plan your hardware & software changes**

**Step 3 - Deploy Windows 95 automatically and at your own pace**

**Step 4 - Distribute new applications when you decide they're necessary**

## **New NetWizard 3.1 Modules**

### **“Plus Pack 1.0” <Aug 96>**

- **Asynch Dial in/out capability**
- **Remote Control (Reachout 5.0)**
- **Win'95 & NT Policy Manager**

### **“Plus Pack 2.0” <Jan 97>**

- **SNMP Integration (HP Openview demand)**
- **NetWare NDS Integration**
- **Distribution “Pull”**

# NetWizard - Plus Pack

1. **Remote Control** - NetWizard administrators can dynamically “take-over” remote machines with redirected video, keyboard, and mouse i/o. Supports all NetWizard platforms except Windows NT.
2. **Modem connectivity between NetWizard components** - NetWizard manager can communicate with remote nodes and remote nodes can communicate with the NetWizard manager using Asynch dial-out via RAS or any compatible interface. (RAS clients to RLN Servers for example).
3. **Windows 95/NT Policy Management** - NetWizard administrator can centrally define Windows 95 and Windows NT “policies” and distribute them (implement them) electronically using the new Policy Editor.

# Remote Control

Easily troubleshoot remote problems and verify operations

***Seamlessly integrated with NetWizard Manager and Agent to yield point-n-click control***

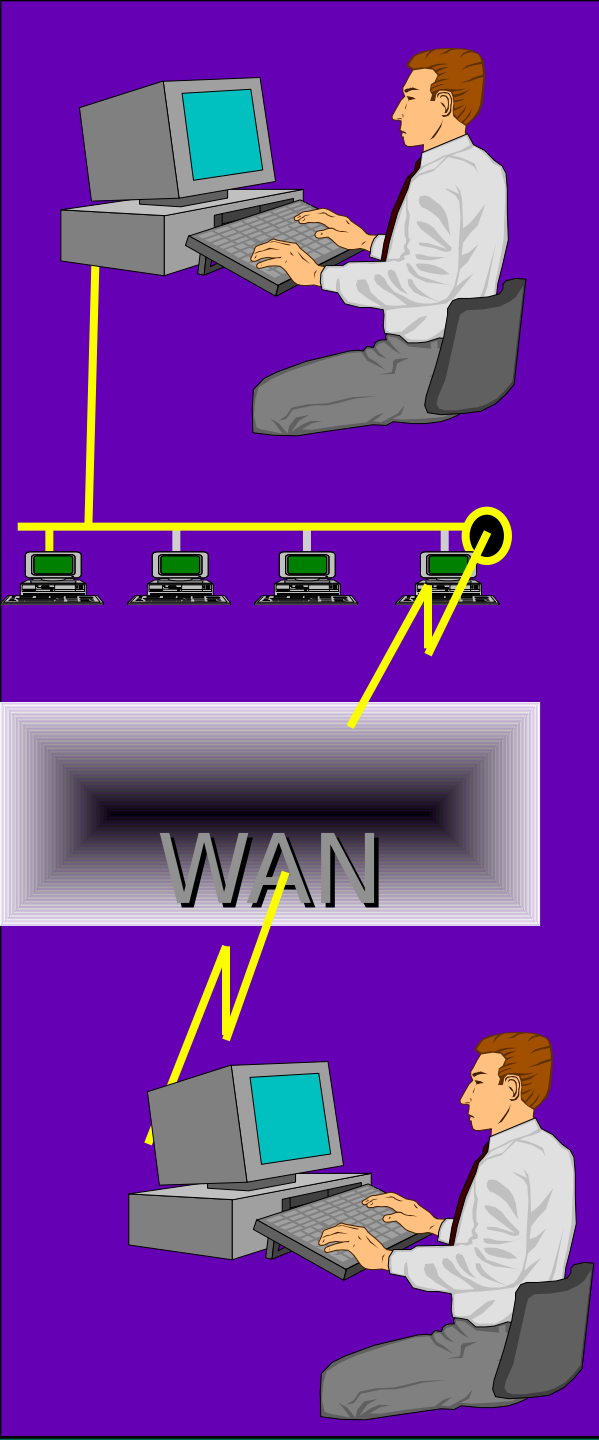
***Automatically installed at Manager and on agent workstations***

***Components are transparently initiated and terminated on "viewer" (Manager) and "host" (Agent) ends***

***"Chat" with end users***

***Windows, DOS, Windows95 and IPX, TCP/IP, NetBIOS, IPC***

***Licensed version of Reachout from Stac Electronics***



# Policy Editor

Centrally define and distribute  
Windows 95 Policies

***Apply policies to individual nodes or Groups  
of nodes***

***Independent of file server access***

***Many practical applications:***

**Define or restrict printer access**

**Ensure consistent system settings among  
groups**

**Set or limit access to network services**

Will also work with Windows NT  
(version 4.0) policies.

- NT Administrator Security

**Future NetWizard Releases**  
Support for NW Enterprise Product (using MVS mainframe for file repository via

SNA gateway)

## ☐ **“WebWizard Internet Initiatives”** **<Aug 97>**

- NetWizard Web Server: NW Mgr as Web Server, users access NW Home page to get software.
- Stand-alone Agents: process NW packages downloaded from Web Servers.
- Integration with Internet Security Scanners.



Data  
Communications  
LAN Times

**BEST**

OF SHOW



ATLANTA

# Questions

