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iSeries. mySeries.

iSeries Navigator: Overview

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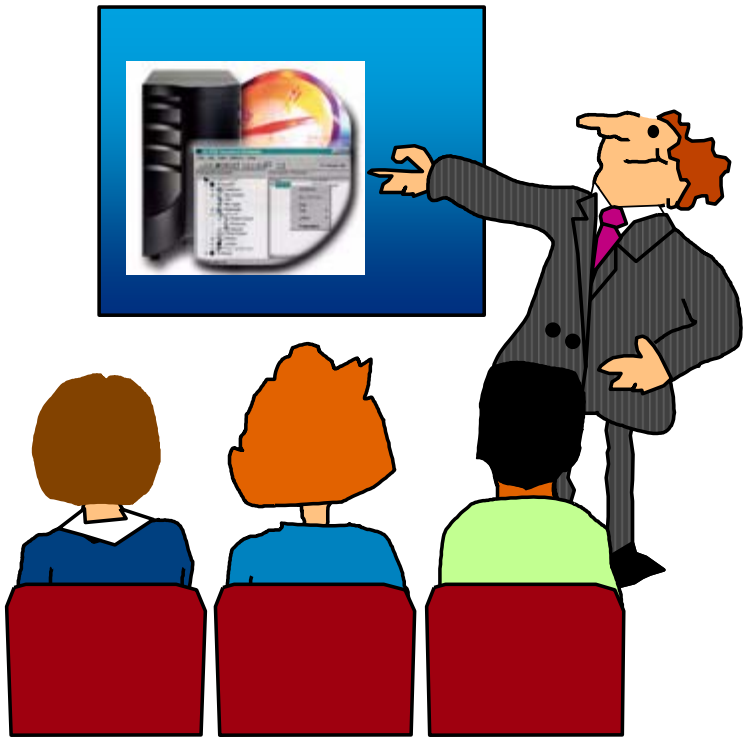
Concepts
Getting Started
Power Techniques
Features
- Using Single Connections
- Centrally Managing your iSeries Systems
- New for V5R3

More information



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Basic Concepts

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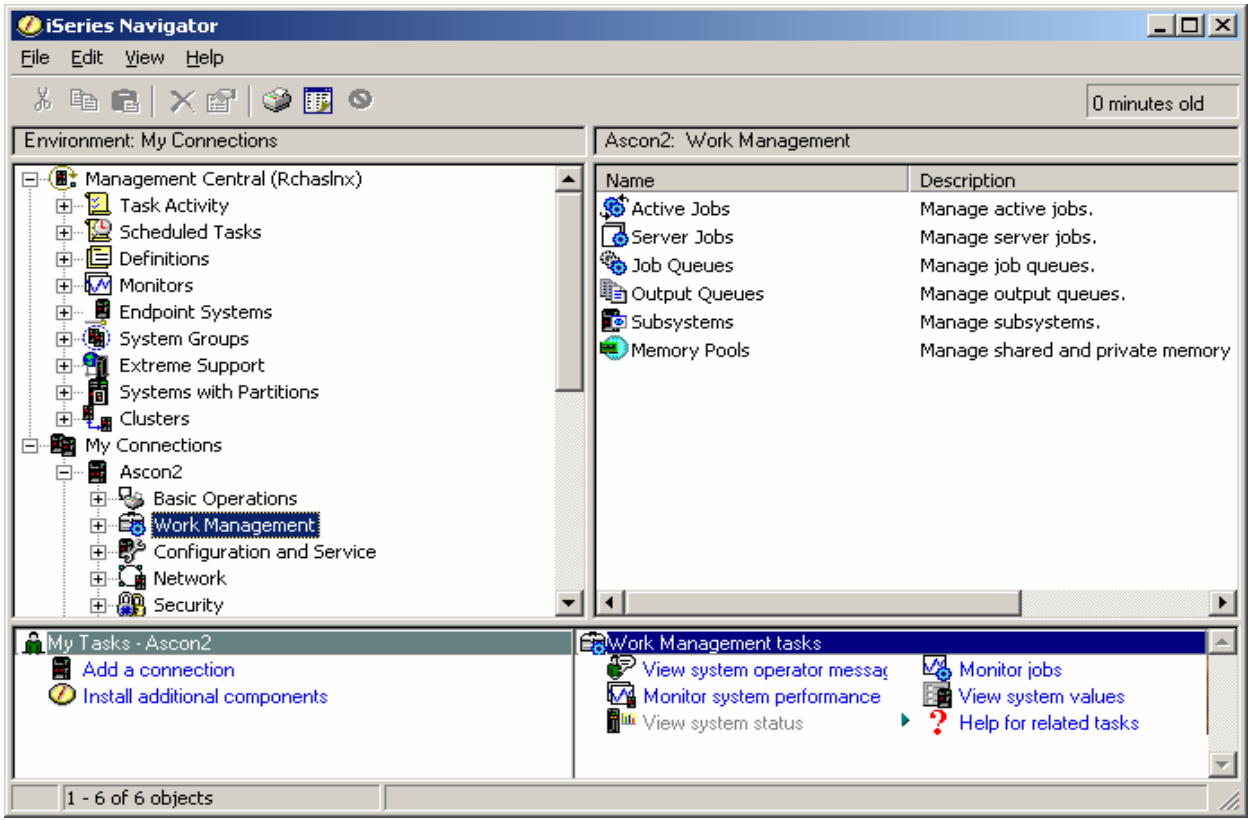
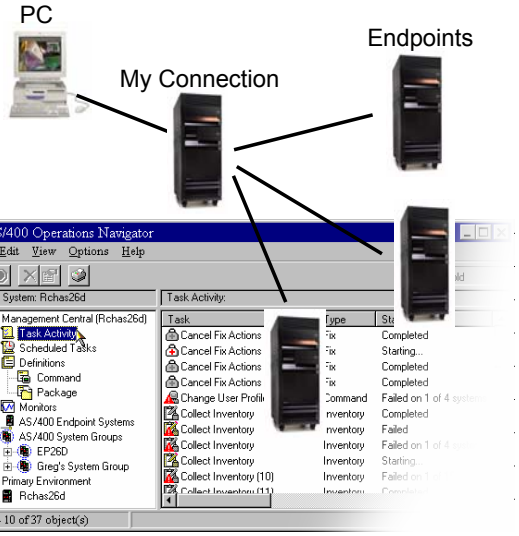
Our Goals

Modernize the user interface
Leverage the latest user interface technology
Easy administration across multiple systems





Visit the iSeries Navigator web site!
www.ibm.com/eserver/iseries/navigator

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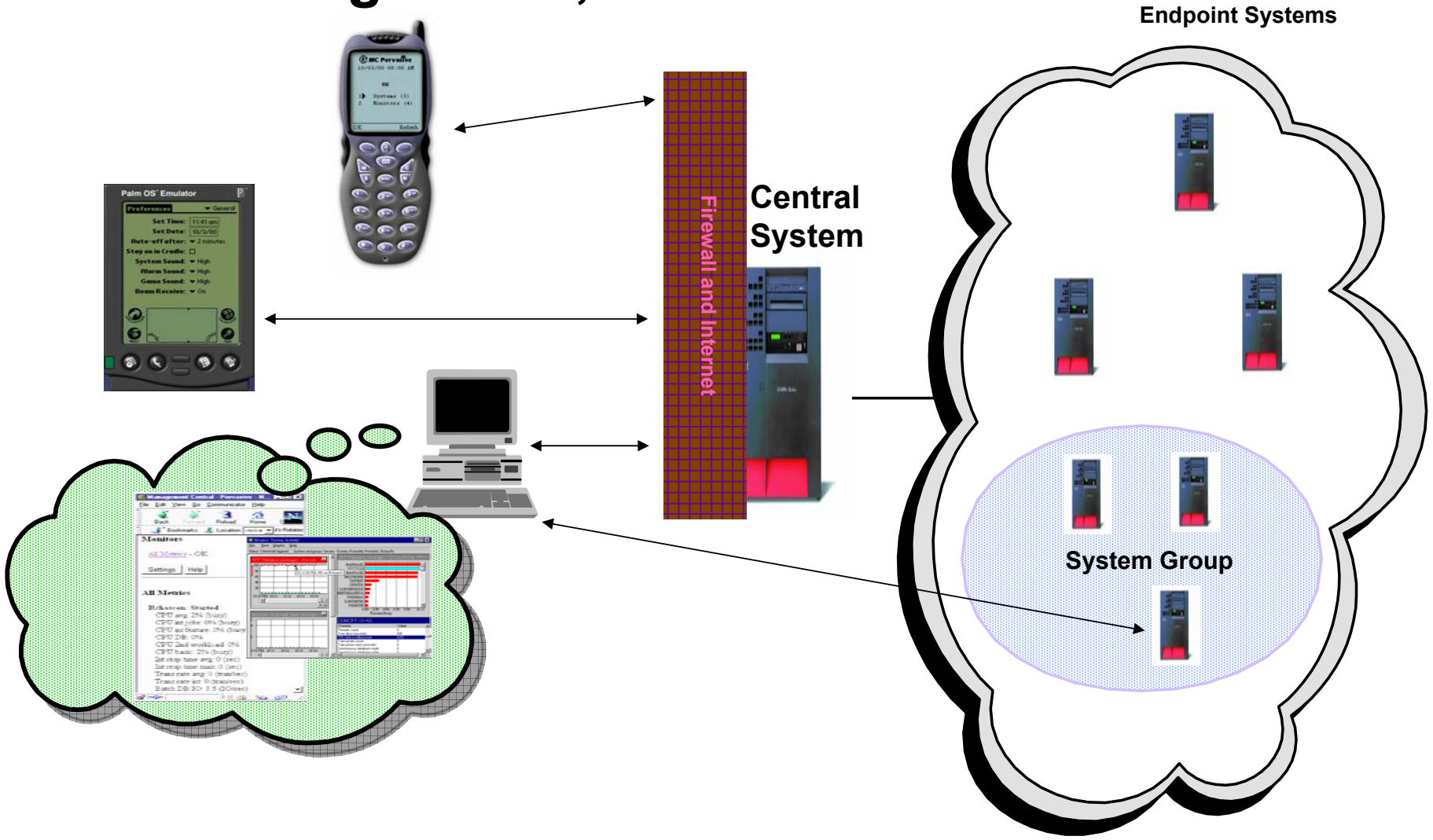
iSeries. mySeries.

iSeries Navigator 10,000 Foot View...



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Notes: 10,000 Foot View...

Management Central is a suite of systems management functions that began to appear with OS/400 Version 4 Release 3 (V4R3). It provided management capabilities built into base OS/400 and integrated into Operations Navigator at no additional cost. The first functions included system monitors and system groups. In V4R4, it was greatly enhanced to enable long running, batch, scheduled or unattended operations for commands, packages, fix management and inventory. V4R5 ushered in the wireless and web enablement with Pervasive functions which included system availability and system monitors. In V5R1 it was expanded with enhancements to existing applications along with new applications. The new applications included functions for user administration, system value management, job monitoring, message monitoring and historical performance graphical interface. The pervasive devices were also expanded to include Commands, Job monitors and Message monitors.

In V5R2, iSeries Navigator expanded the Management Central functions by adding file monitors, B2B activity monitors, synchronize date and time, and other inventory enhancements.

Management Central uses the basic system operations on each of the endpoints (e.g., APIs for performance monitoring, system commands, etc.). Management Central does not place any limitation on the number of endpoint systems used by its functions. There will be practical limits determined by your environment, networks, management policies, etc. In addition, there is no limit to the number of endpoint systems that can be in a group

Endpoints do not need to be at the same level as the Central System, nor does the Central System need to be at the same level as the Client, HOWEVER, Management Central is only as good as the client and Central System combination.

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Notes: Management Central Terms

Management Central basic terms:

- PC provides the graphical interface (i.e., view) both input and output of management activities.
- Central System connects to other systems (called endpoints).
- Endpoints are just systems which your PC does not need to be in direct contact with in order to "manage"
- Source System is from which objects, files and information are sent within Management Central's send tasks. The Source System is the source of the objects, files and information being sent.
- Model System has all and only desired fixes installed or has all system values set properly for the targets.
- Target Systems is where objects, files and information are sent within Management Central's send tasks. The Target Systems are the destinations of the objects, files and information being sent. Target Systems are often grouped into System Groups.
- Inventory contains records which contain information about server hardware, software, fixes, users and groups, system values, network attributes, contact information, service attributes, as well as other custom inventory.
- Fixes are PTFs.
- Definitions are templates used to reuse and create commonly used items.

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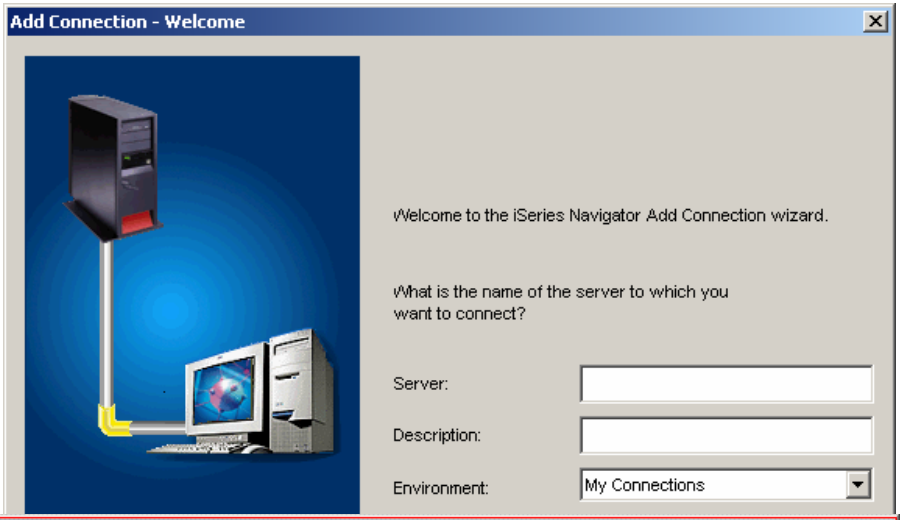
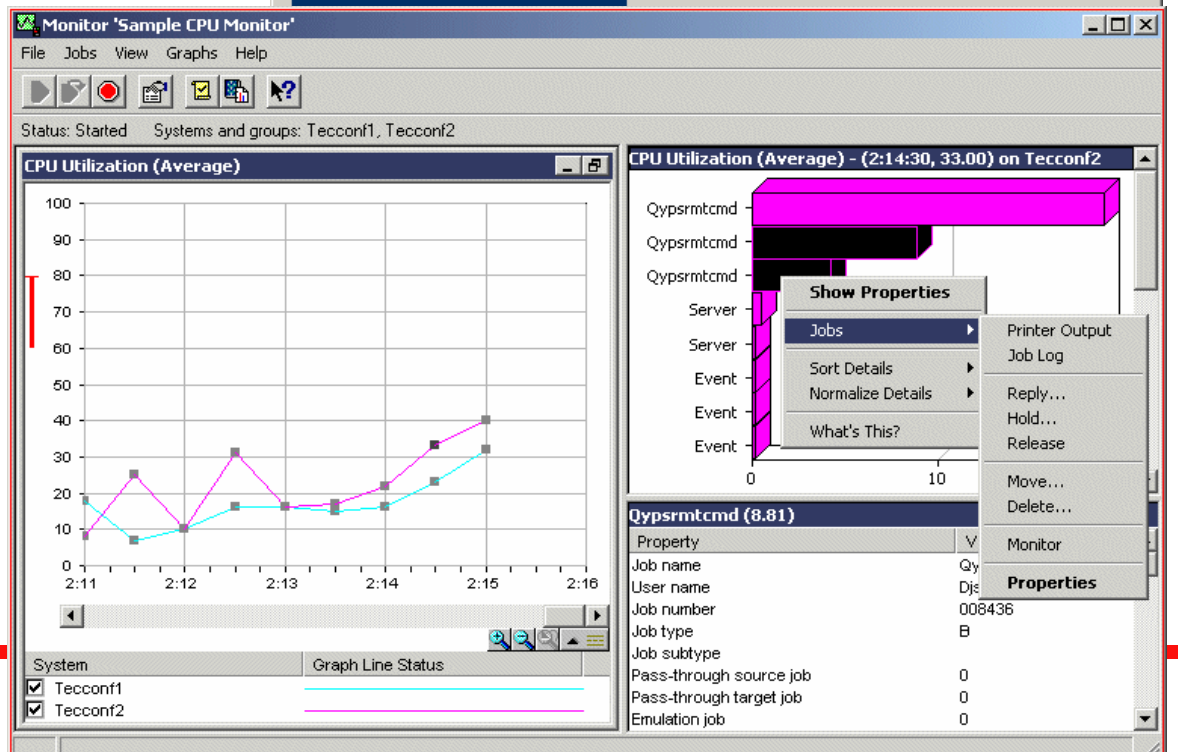
iSeries Navigator Adds Ease of Use

- Leverage your user's Windows skills
  - Explorer view, properties sheets, context menus, drag and drop
- Reduce need to learn command interface
  - Easier to understand terminology/concepts
  - Graphics - not just icons
  - Wizards
  - High degree of function integration, not standalone utilities





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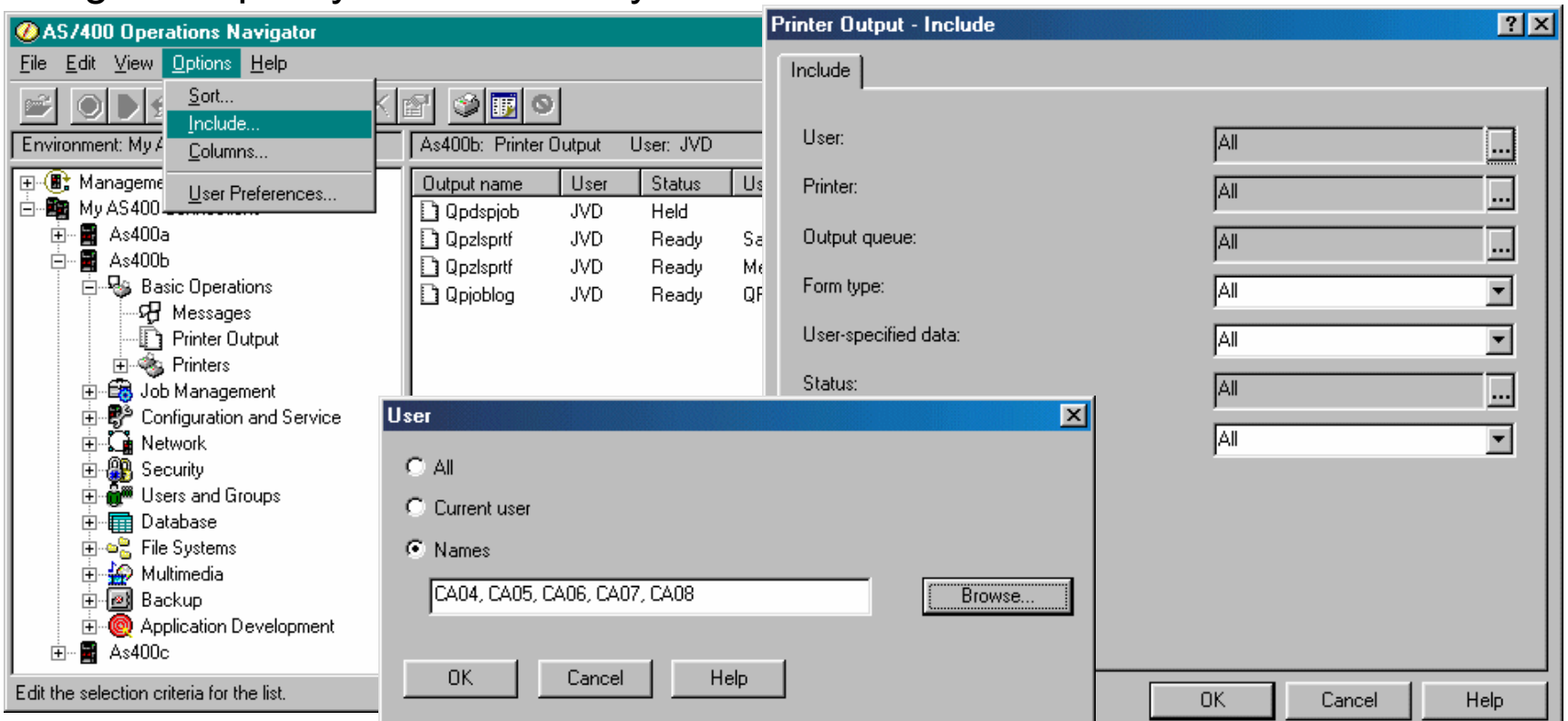
iSeries Navigator Makes Users Productive

- Lists of objects give rich information
- Customized views (Include, Columns, Sort)
- Desktop shortcuts to frequently used functions
- AutoRefresh, list print, find in list, drag and drop capability
- Manage multiple systems as easily as one



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Getting Started

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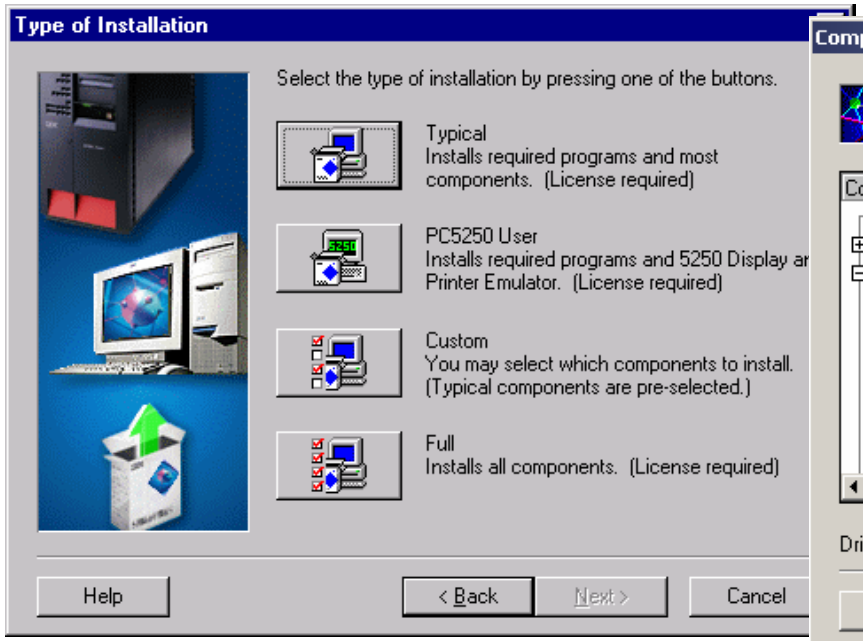
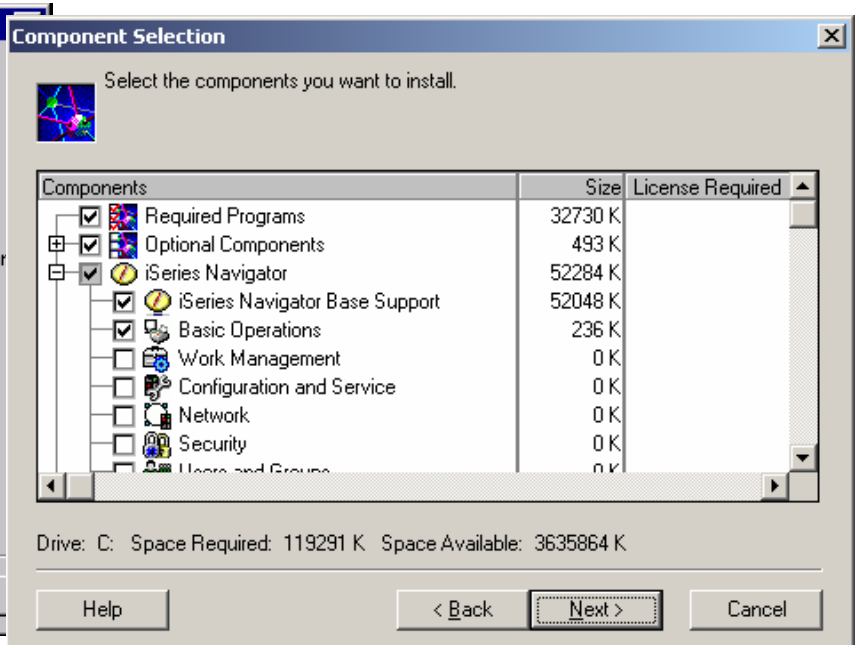
Installation

- iSeries Navigator components are selectively installable
- Basic Operations installed with iSeries Access for Windows Typical Install (Messages, Printer output, Printers)
- Additional components installed using iSeries Access for Windows Custom Install or Selective Setup after install





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Using the Main Window

Function tree

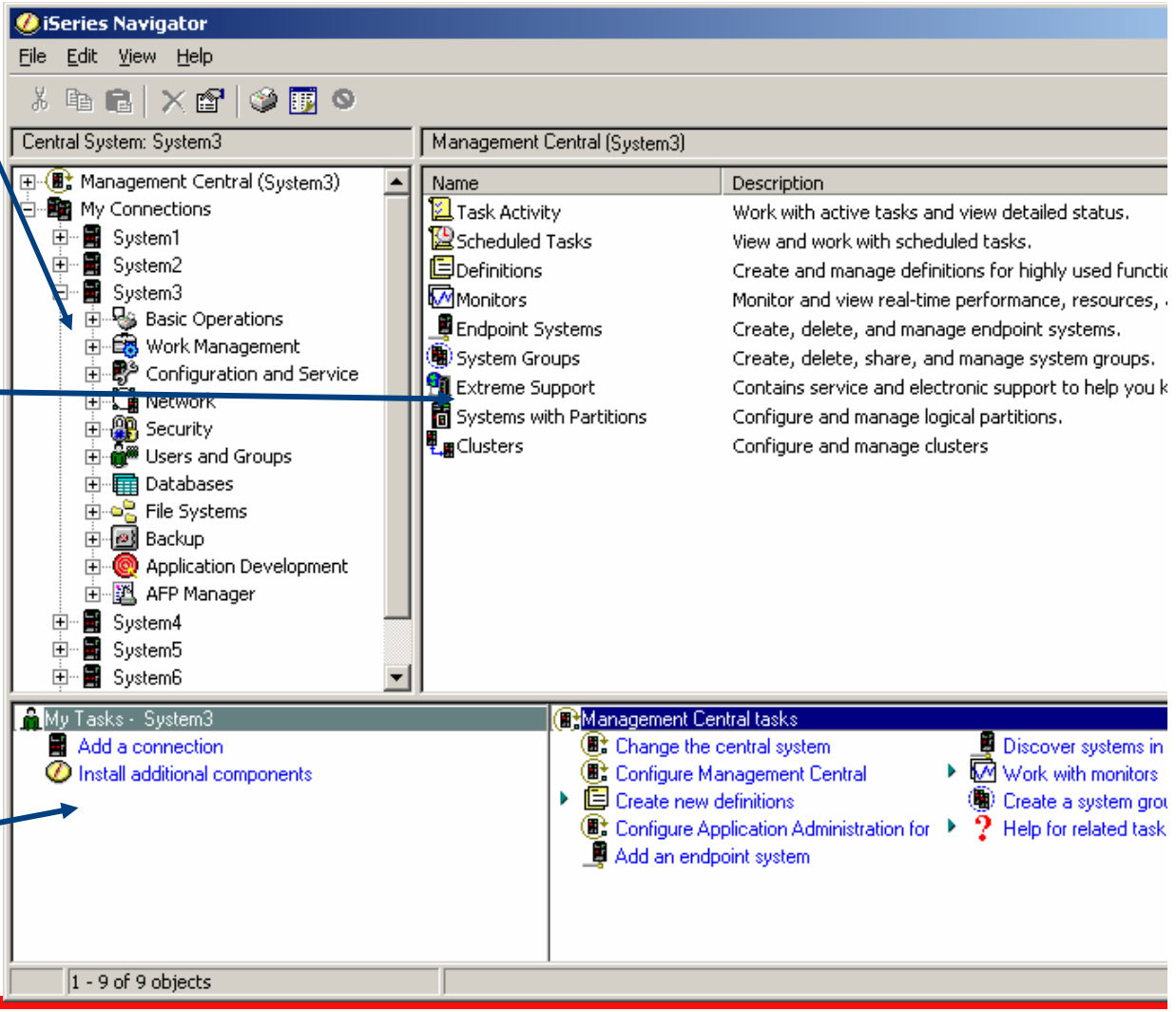
- Folders which can be expanded
  - Click the plus or double click the icon or folder
- Single click to select a folder to see its contents in the right pane

Details pane

- Contains subfolders or objects
- Defaults to "details" view with columns of additional information
- Can be set to show only large, small icons, or icon list view

Taskpad

- Contains common tasks related to the selected folder
- Can be customized to keep your favorite tasks available at all times!



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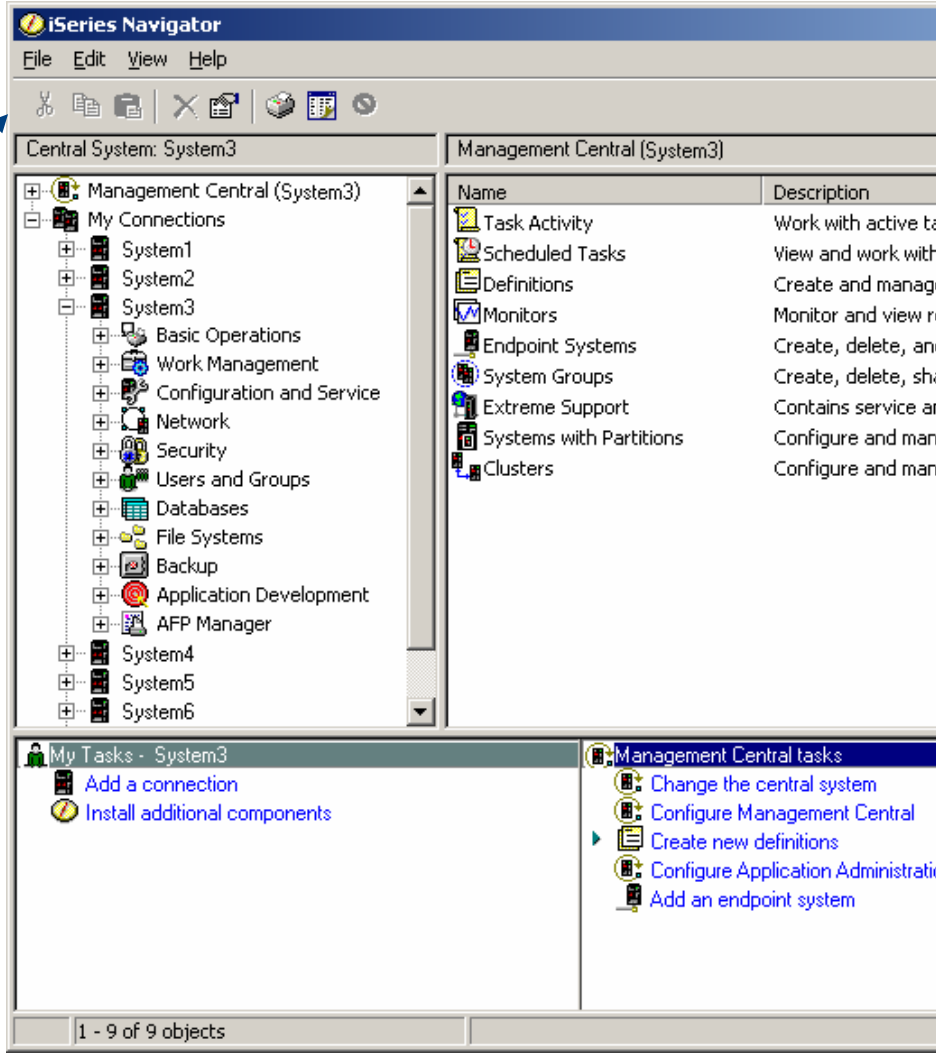
Using the Main Window

- Pulldown menu system
  - Contains all menu options that pertain to the selected object
  - Contains global menu options that control iSeries Navigator
- Toolbar
  - Fast path to commonly used menu options for the selected object
  - Some items will change depending on the type of object selected
  - Placing mouse pointer over a toolbar button produces a "tool tip" with its name
  - Menu choices and toolbar buttons will be disabled ("grayed out") depending on the state of the object selected
    - E.g., the "Hold" menu choice and toolbar button are disabled when a printer is already held



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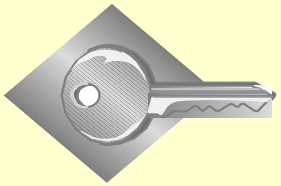
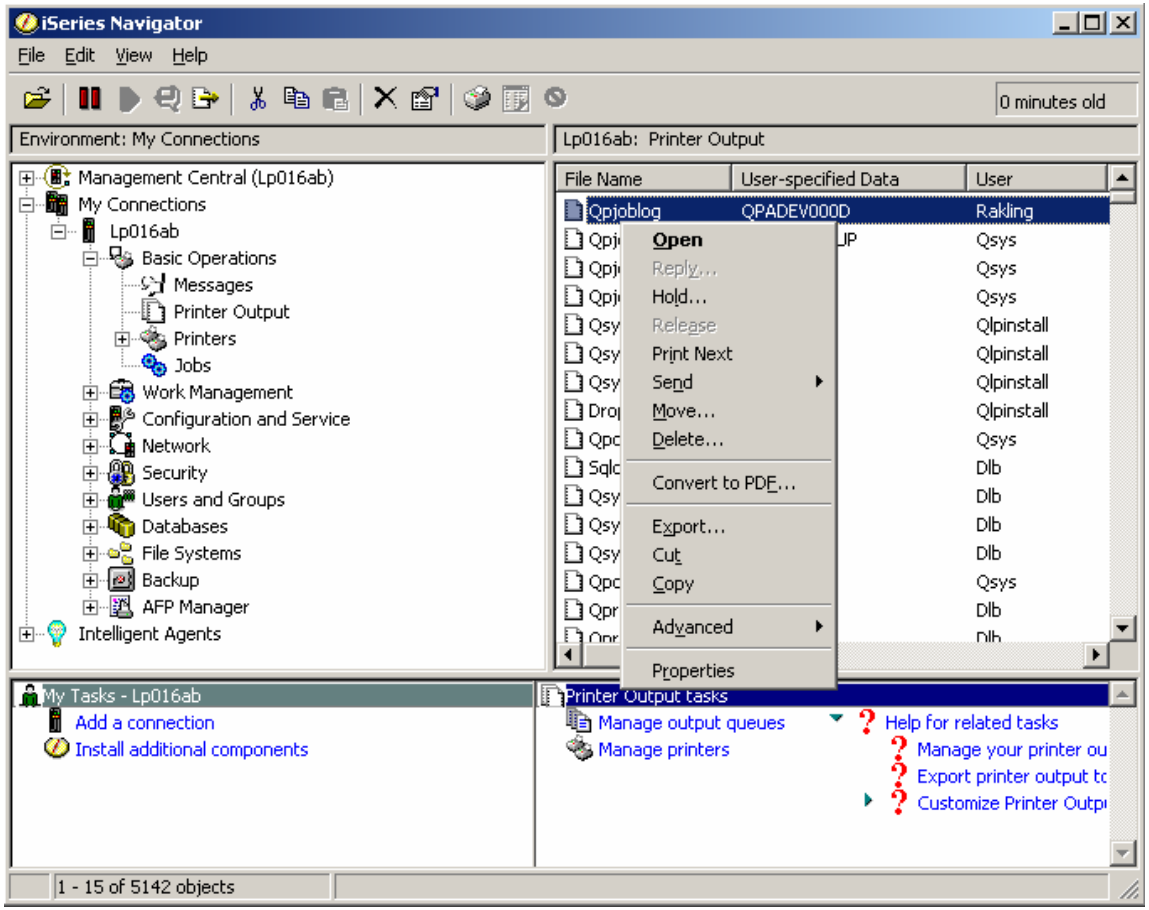
Using the Main Window

- Pop-up menus
  - A subset of the pull down menus
  - Right-click on any object in the tree or details pane for the context, or pop-up menu
  - Only contains menu choices for the specific object in its current state
  - Pop-up menu for an object shows what actions you can take on that object

Pop-up menus are the key to unlocking what you can do with the GUI





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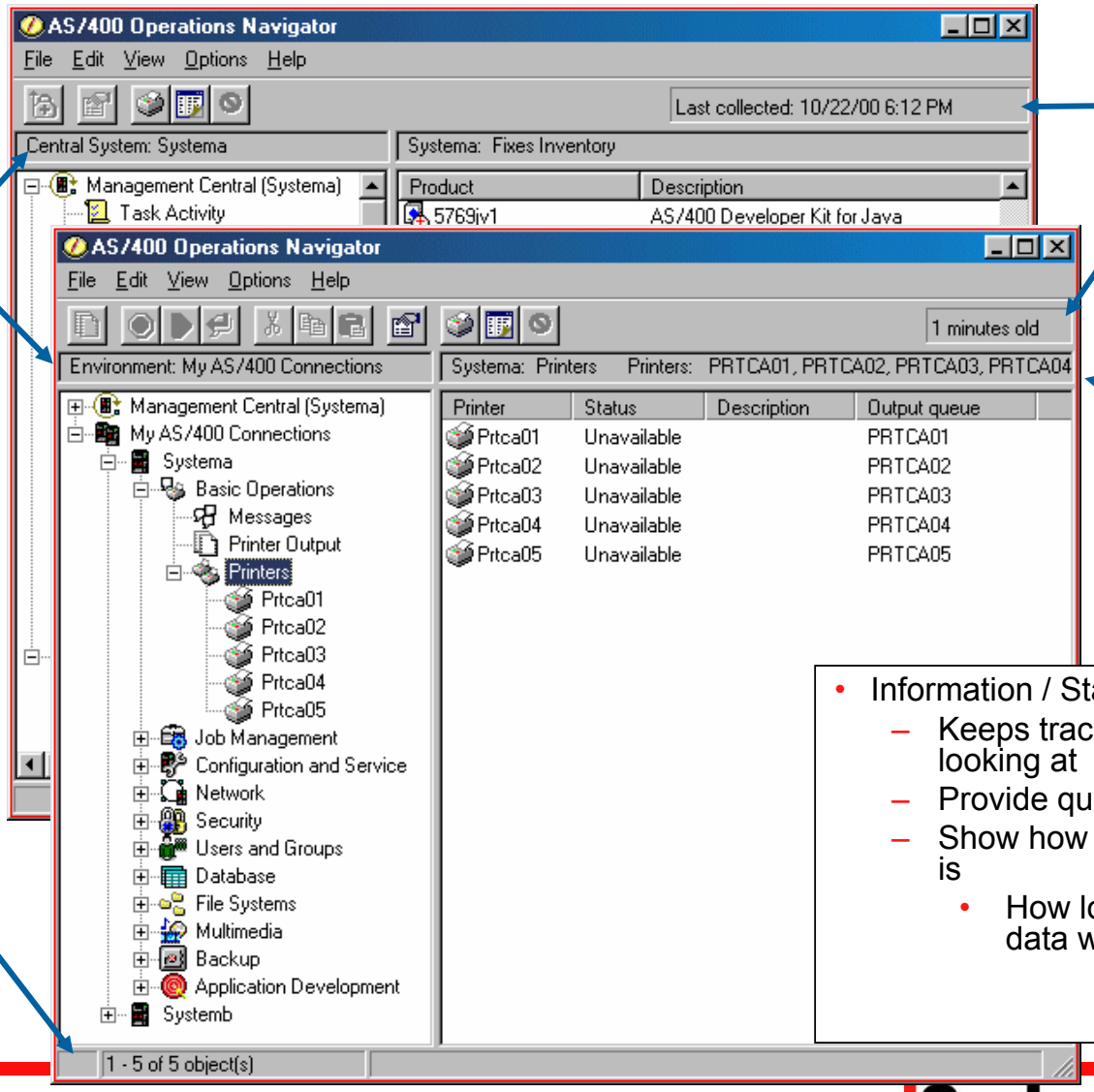
Using the Main Window

Client Access Connection Environment that's in use or Management Central central system



Data "freshness" indicator

Folder being listed and any options used for "Include"

Number of objects in right pane / descriptions of menu choices

- Information / Status Areas
  - Keeps track of what you're looking at
  - Provide quick help
  - Show how old information is
    - How long since the data was retrieved

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Performance Issues

Performance improves during the course of a session
- More caching, more things loaded in memory

Exceed PC size recommendations provided by Client Access, especially for memory
- Use at least a 400-500 mHz CPU, 128 MB memory; more is better
- (Larry's Addendum: DOUBLE the CPU and QUADRUPLE the Memory above!)

Keep up to date with Client Access service packs

Use include/filtering where possible to subset a large list, especially in the File Systems folder

Read the iSeries Navigator web site for:
- Information APARs
- Performance Tips
- How to download the performance advisor!

www.ibm.com/eserver/iseries/navigator/perftips.html

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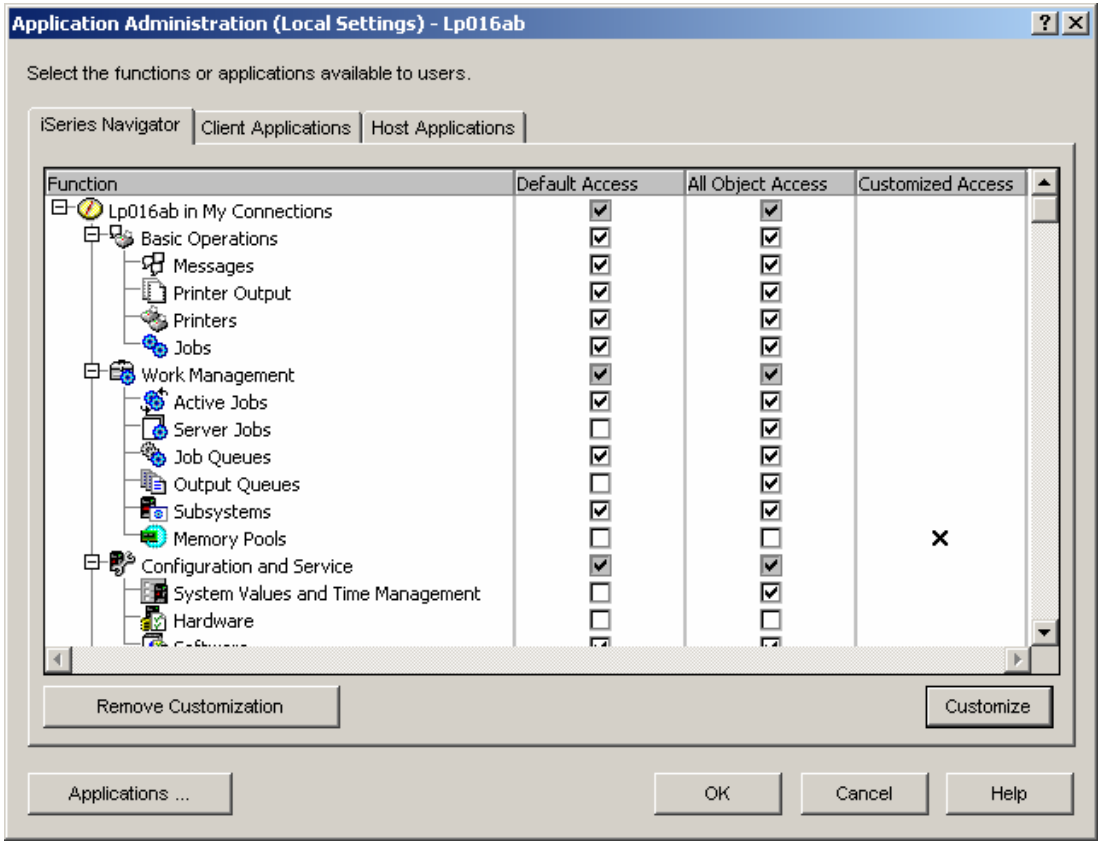
Application Administration

- What does it do?
  - Controls access to iSeries Navigator functions
  - Similar to limited capability for PC5250 interfaces
- When do you use it?
  - When you want to control what functions users see in iSeries Navigator
- How do you use it?
  - iSeries Navigator interface for system defaults and individual users



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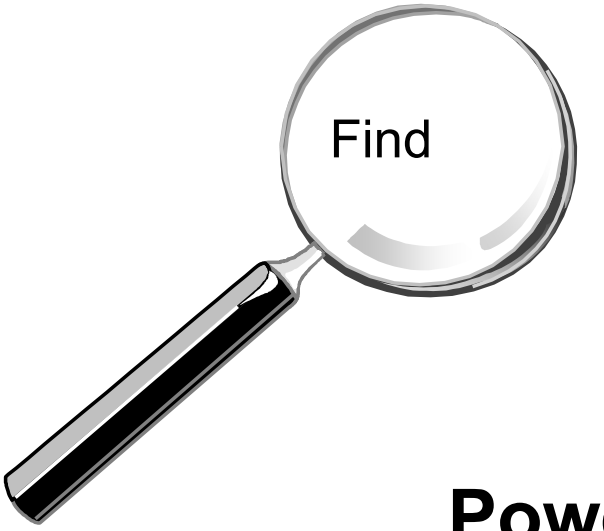
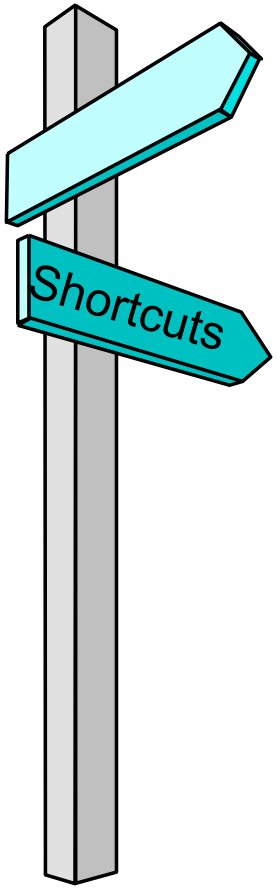
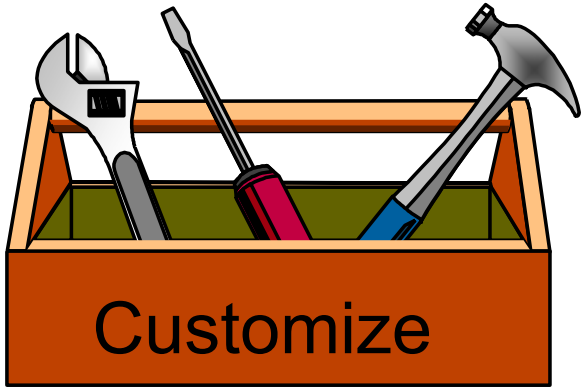


Power Techniques





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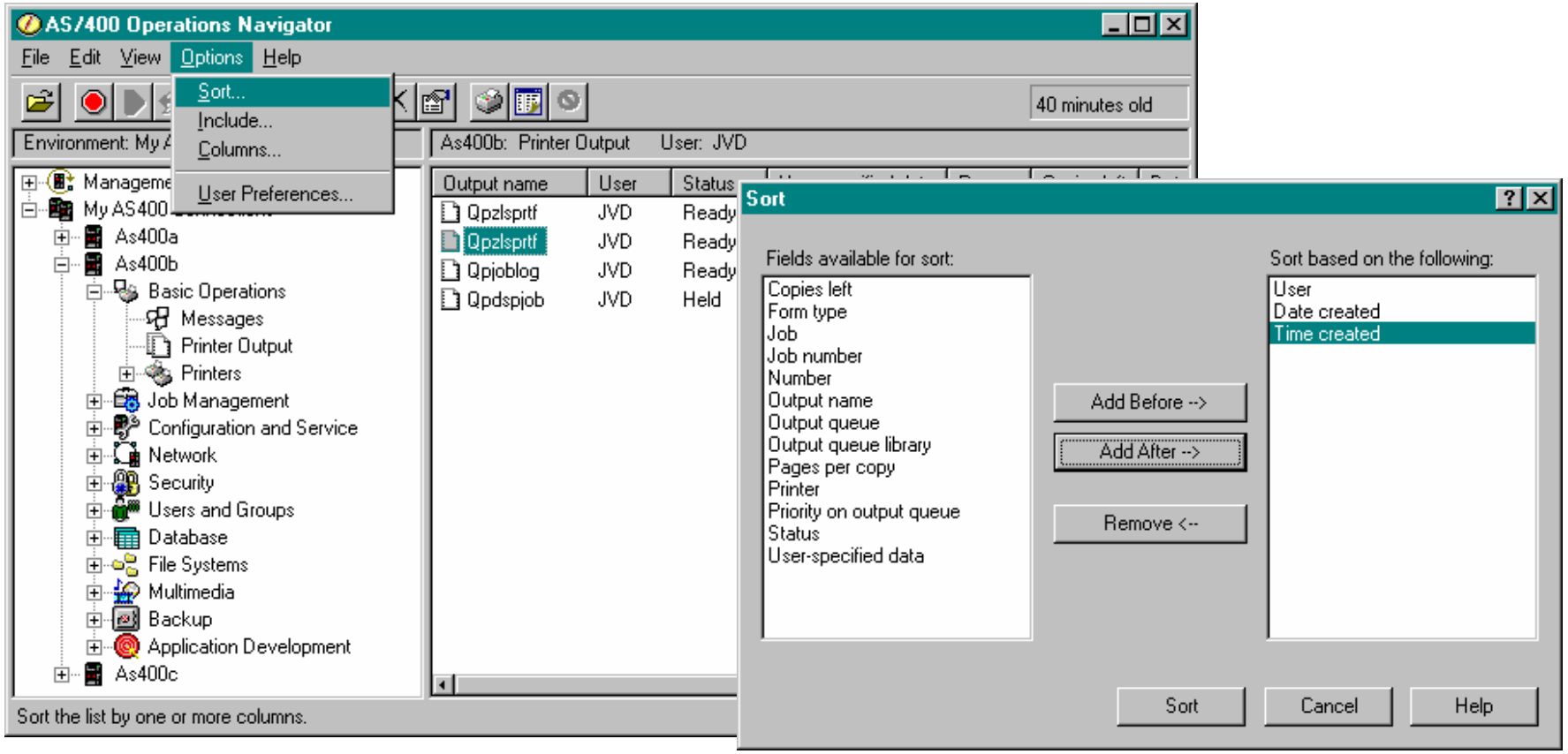
Customizing

Sort

- Click sorting by clicking on the column heading
- Sort dialog allows you to specify multiple columns to sort by



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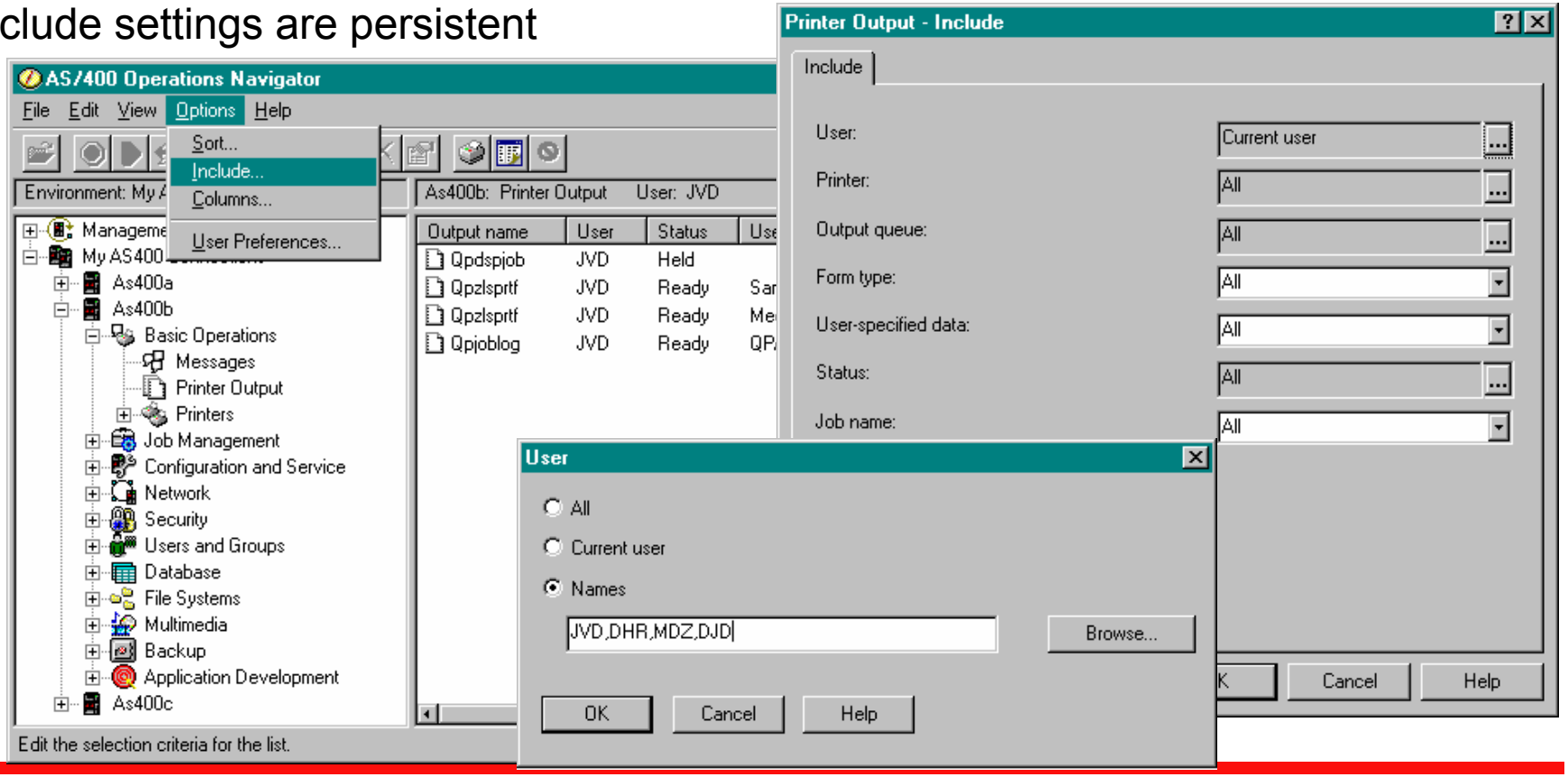
Customizing

Include

- Include allows you to select just the data you want to see in the list
- Criteria vary depending on the type of object
- Include settings are persistent



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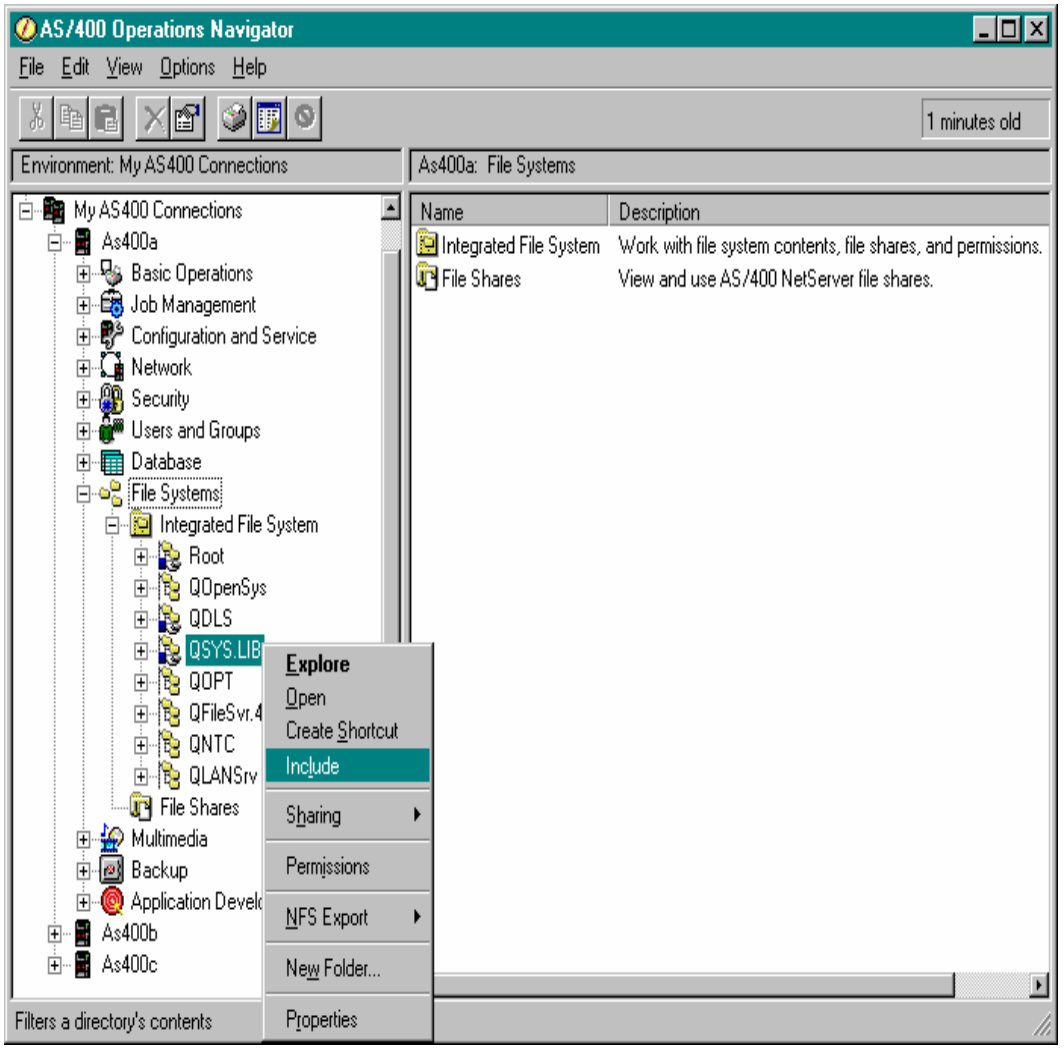
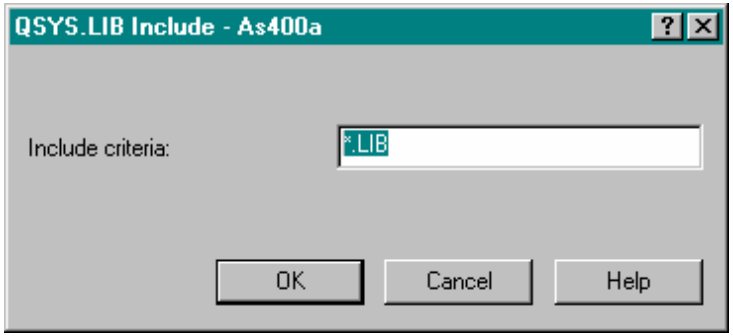
Customizing

File System Folder - Include

- Include option on Integrated File System folder allows you to enter file criteria to control the contents of the list
- Affects contents of details pane and folder tree (if not expanded)
- Can be used for all file systems





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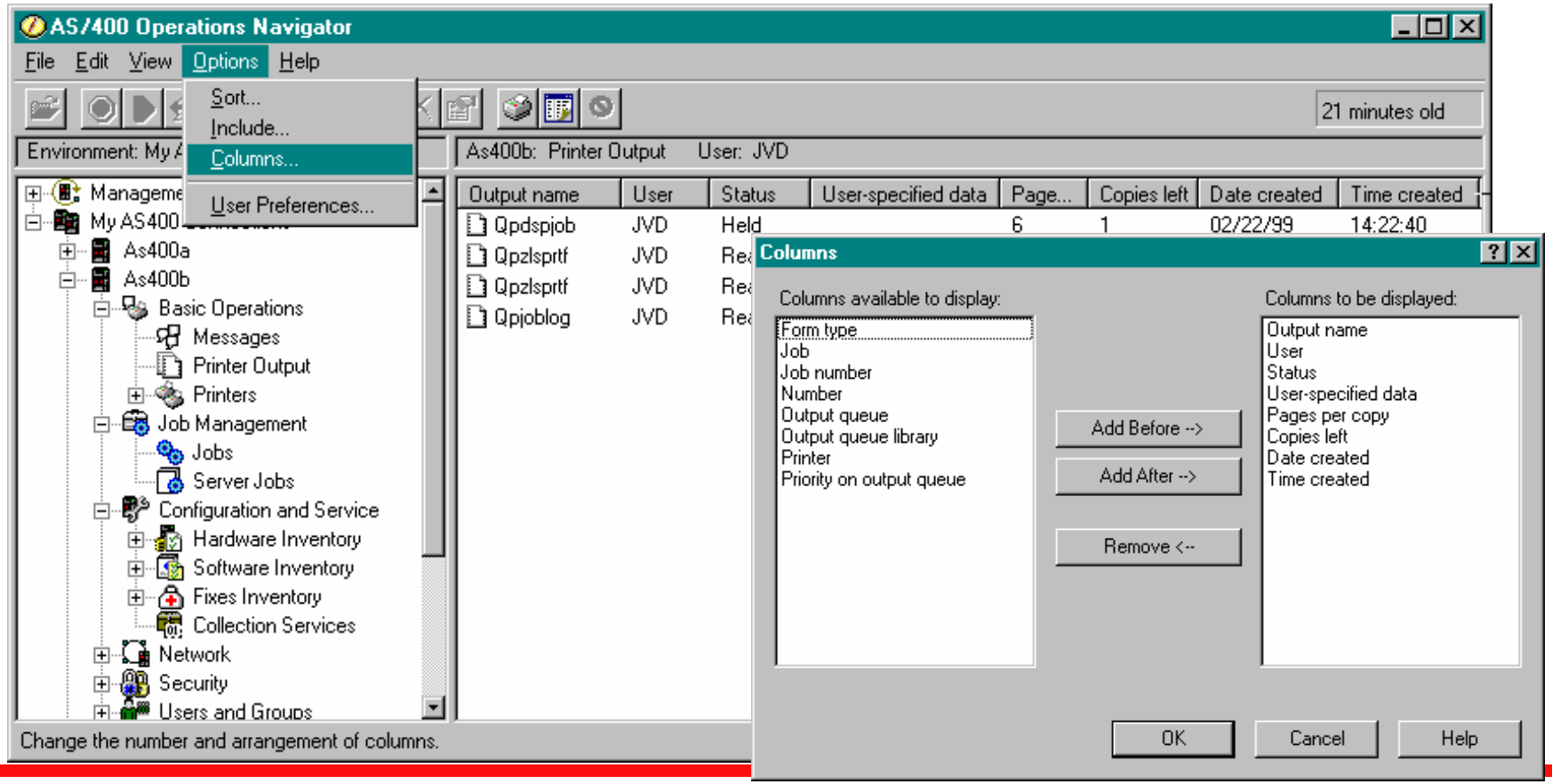
Customizing

Columns

- Select and order content
- Column settings are persistent



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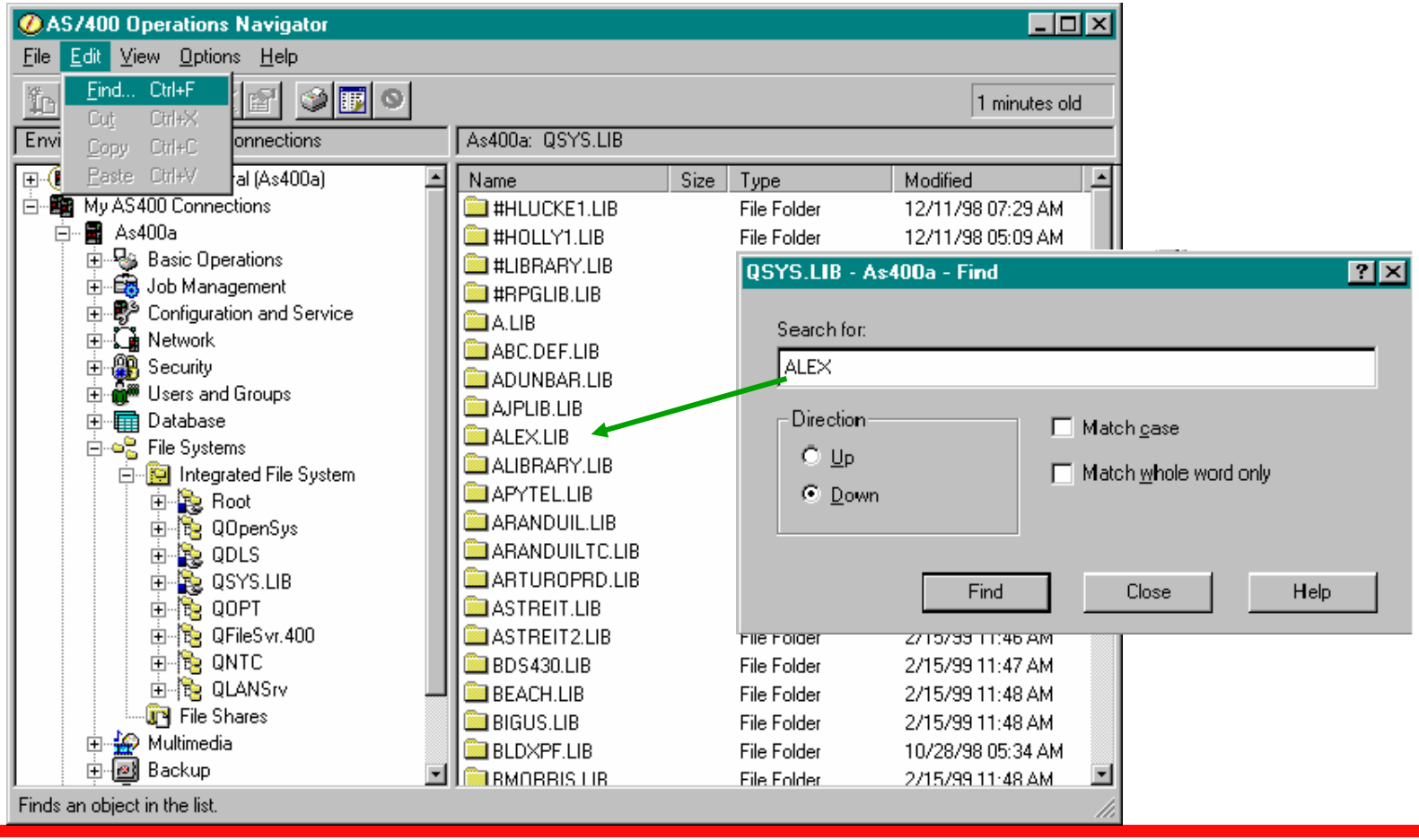
Finding

Detail Pane

- Locate text string in displayed columns



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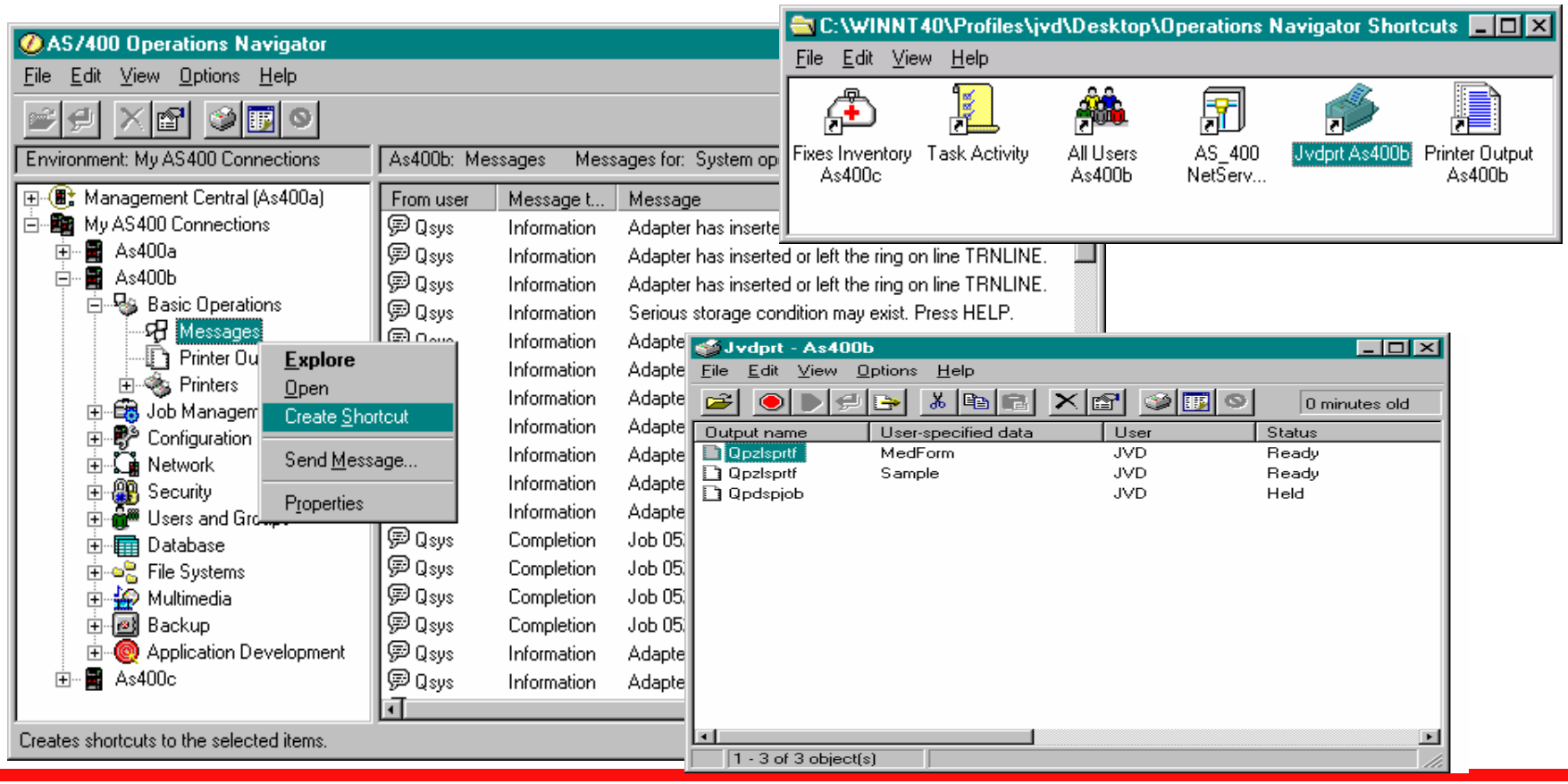
Shortcuts

- Quick access to a list of objects
- Drag and drop a folder to the desktop
- Separately customizable via Include and Columns



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Drag and Drop

- User Profiles
  - ... to other iSeries and system groups
  - ... to groups
- Group Profiles
  - ... to other iSeries and system groups
- Integrated files system
  - ... support OS/400 library system
  - ... copy/move to another iSeries
  - ... copy/move to pc
  - ... send to a system group
- Database tables
  - ... to other libraries
  - ... between systems
- Database view
  - ... include tables in a joined view
  - ... indicate columns to join
  - ... add columns in the view

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Drag and Drop

- Endpoint Systems
  - ... to and from system groups
  - ... to System Groups container to create group
- Definitions
  - ... user definition to create
  - ... package definition to send
  - ... command definition to run
  - ... product definition to send and install
- Products
  - ... to system group to send and install
- Jobs
  - ... move jobs between job queues
  - ... move jobs in position within a job queue
- Fixes and Fix Groups
  - ... to send and send and install

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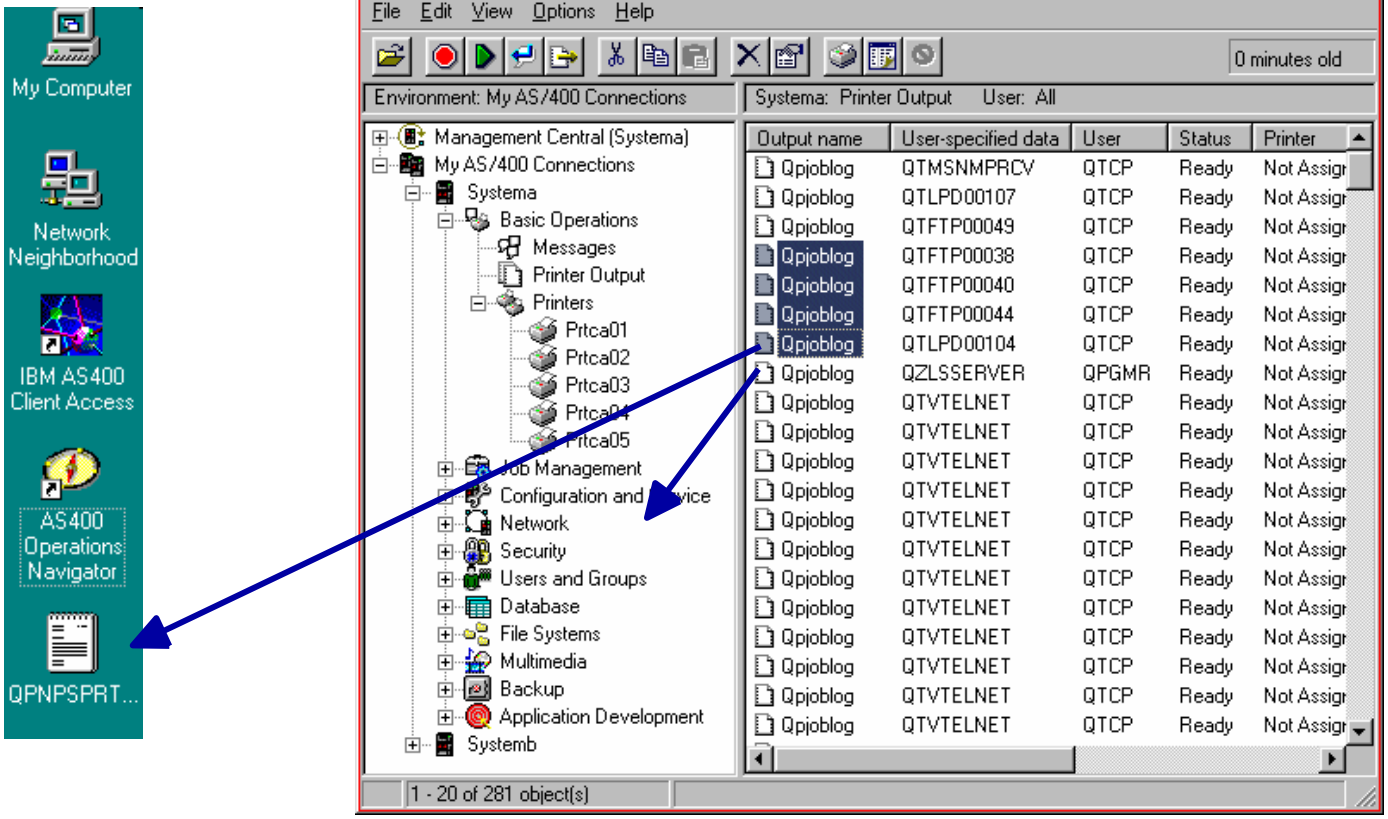
Drag and Drop

- Copy or Move output
  - ...to another printer (same system)
  - ...to another printer (different system)
  - ...to the Desktop

Great for including in email!



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Overview
My Connections

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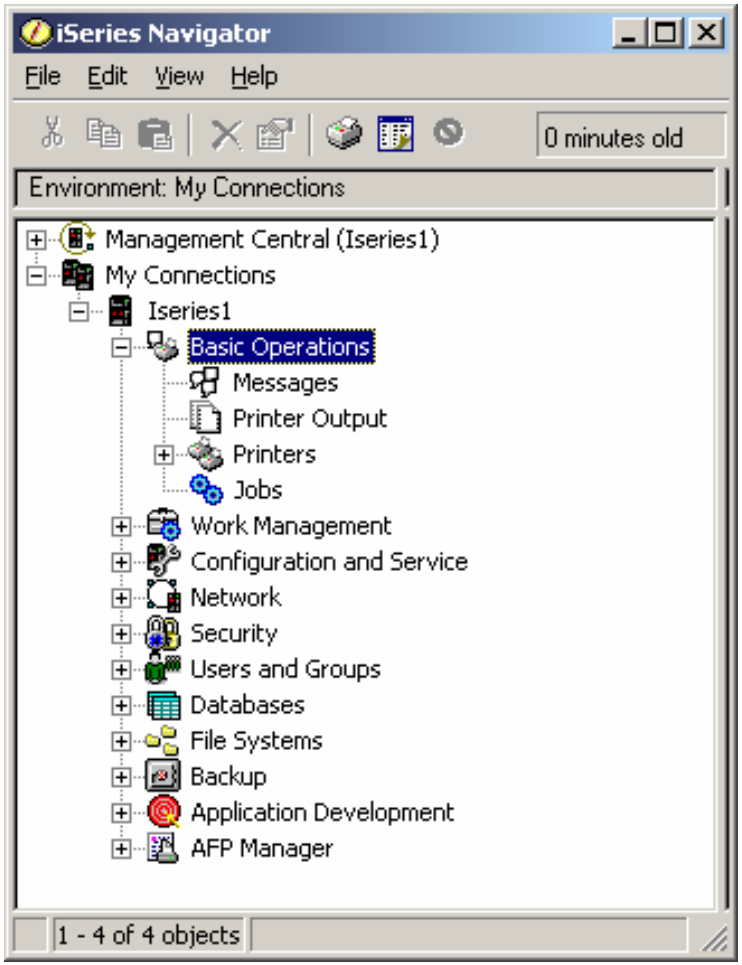
Basic Operations

- Messages*
  - Send
  - Reply
- Printer Output
  - View
  - Manage (hold, release, delete...)
- Printers
  - Change
  - Manage (start, reply to message...)
- Jobs
  - Manage and View (output, joblog...)



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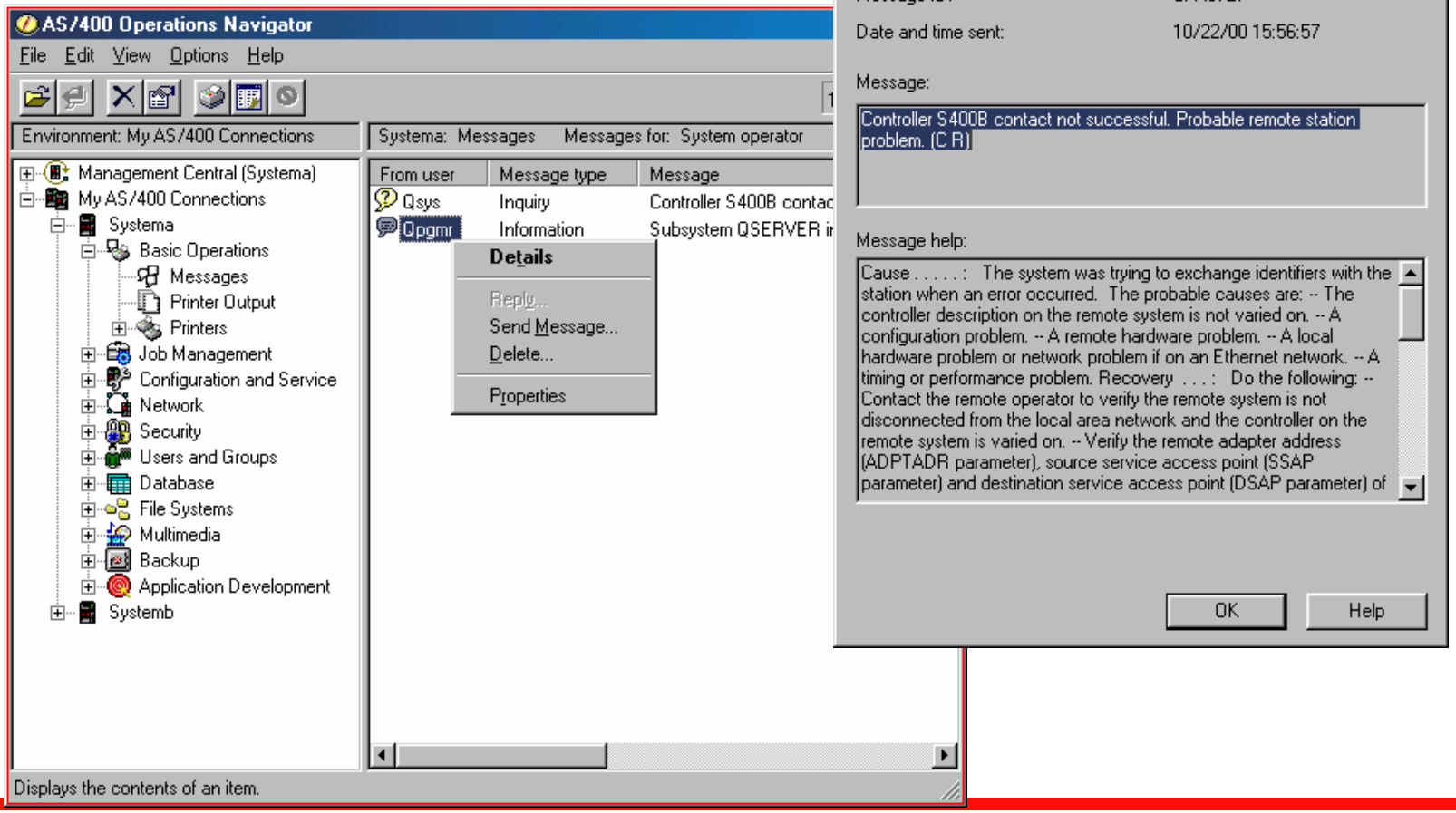
Messages

Basic Operations

- View details, Delete, Reply
- Display properties



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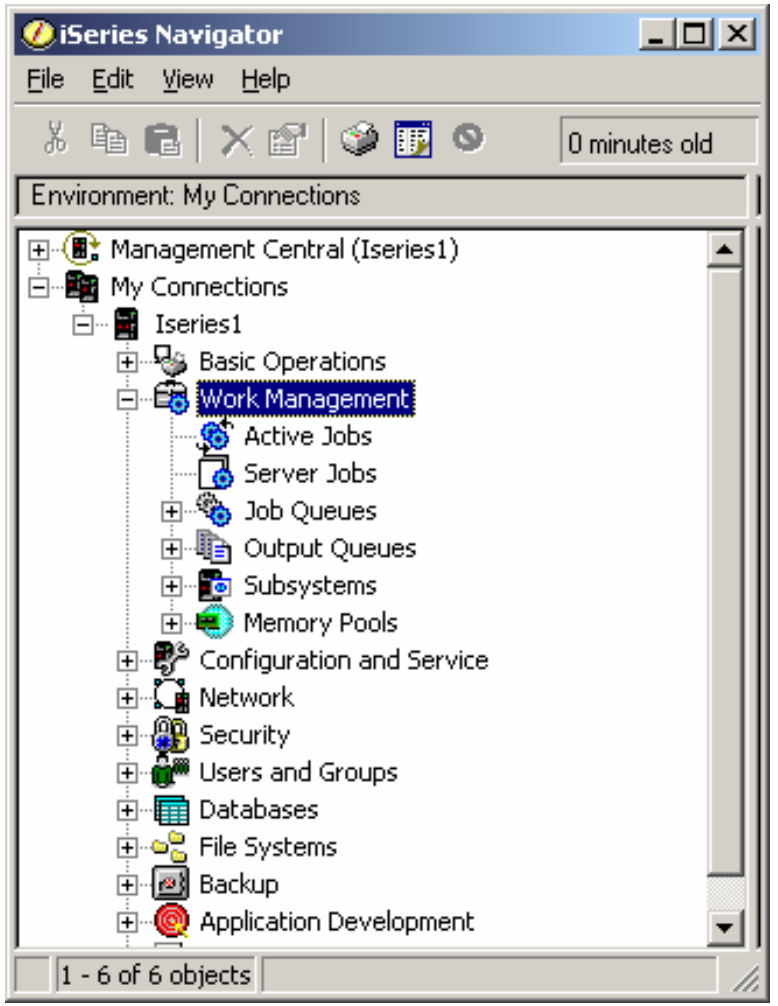
Work Management

Manage Work Through the System

- The WRKACTJOB container
  - Customizable unlike the green screen
- Server jobs shows user*
  - Not available on the green screen
- Manage the jobs still on job queues
  - Change order or queue
- View the output of jobs
- Work with jobs in a subsystem
- Manage the system's memory pools



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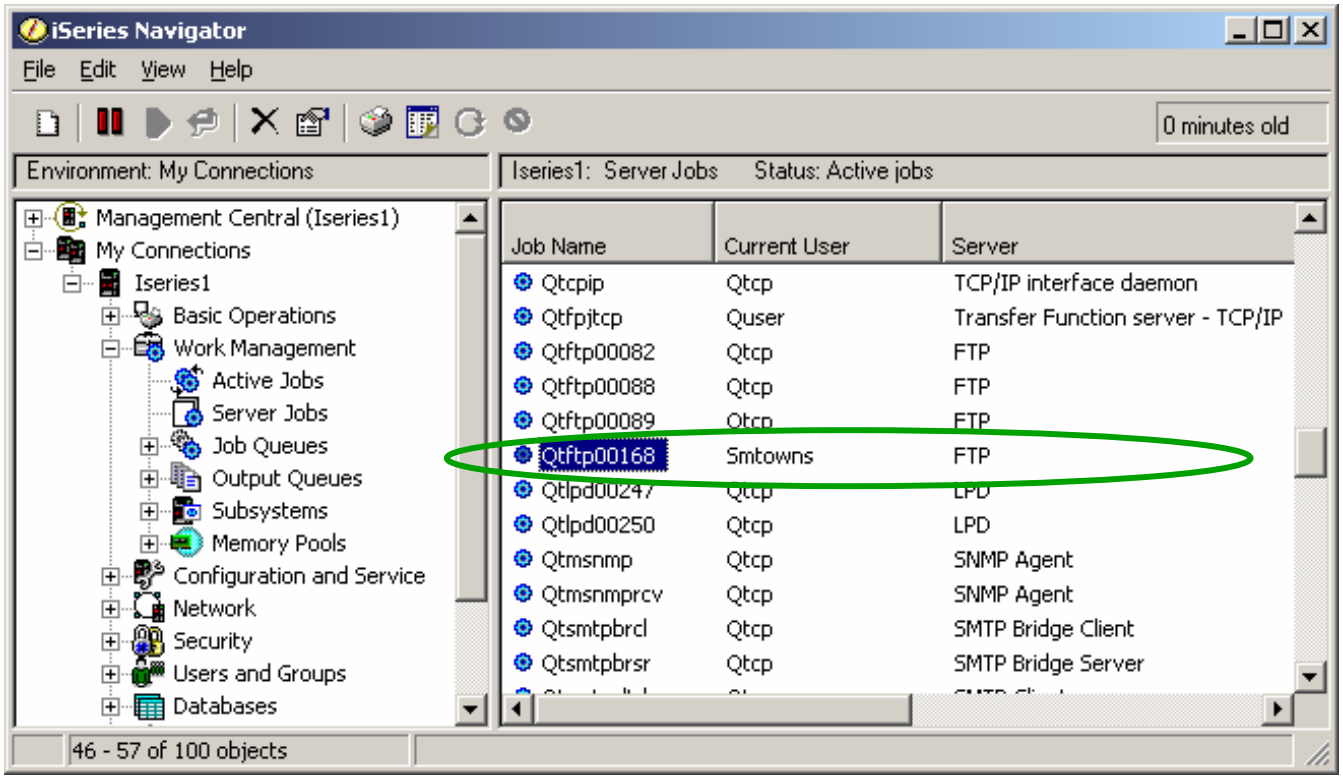
Server Jobs

Work Management

- Manage jobs used by server name
- Shows which user is currently using the server
- Server jobs have the same menu options as user jobs



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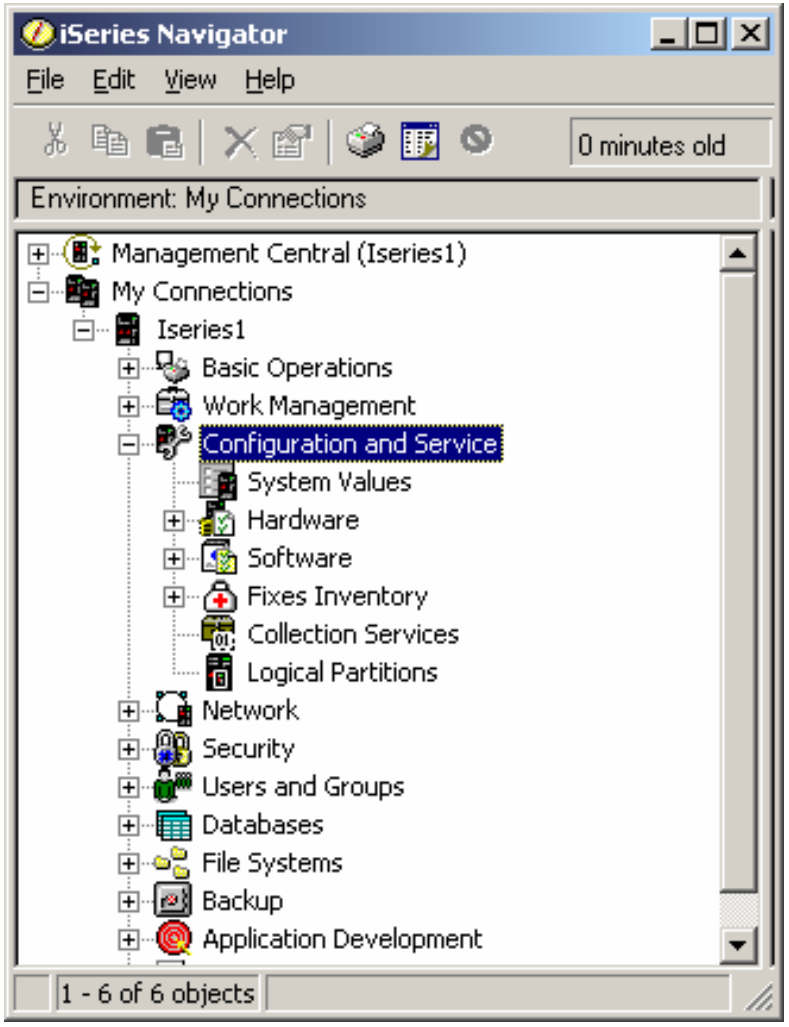
Configuration and Service

View system information
- System Values
- Hardware*
- Software
- Fixes

Inventory
- ...from Central System
- ... search enabled

Access to
- ... Disk units
- ... Graph History*



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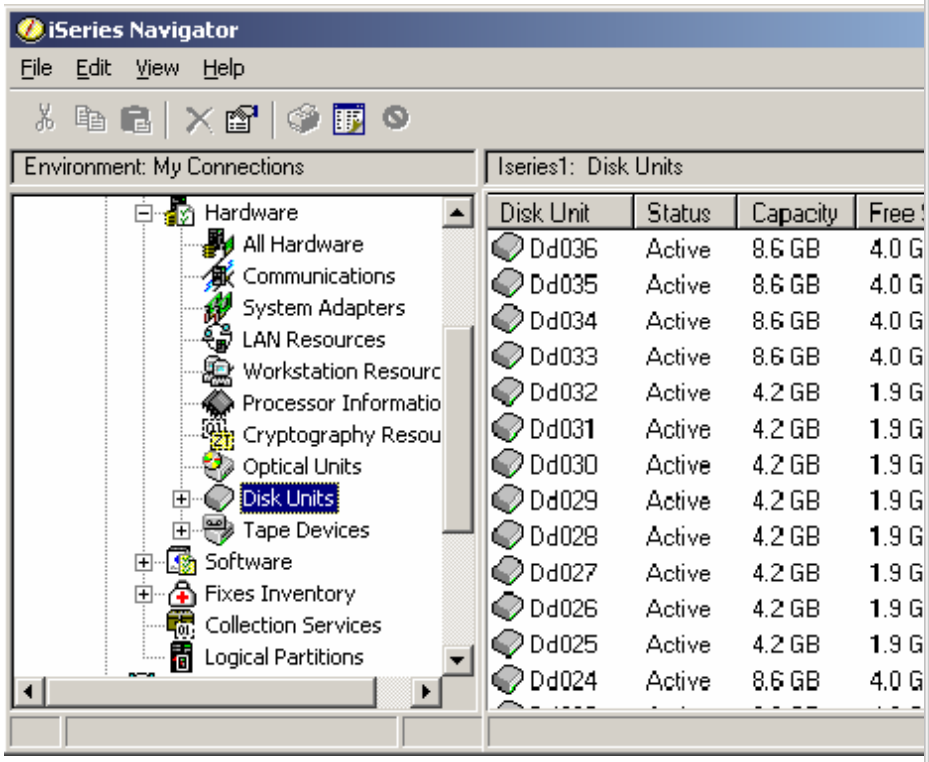
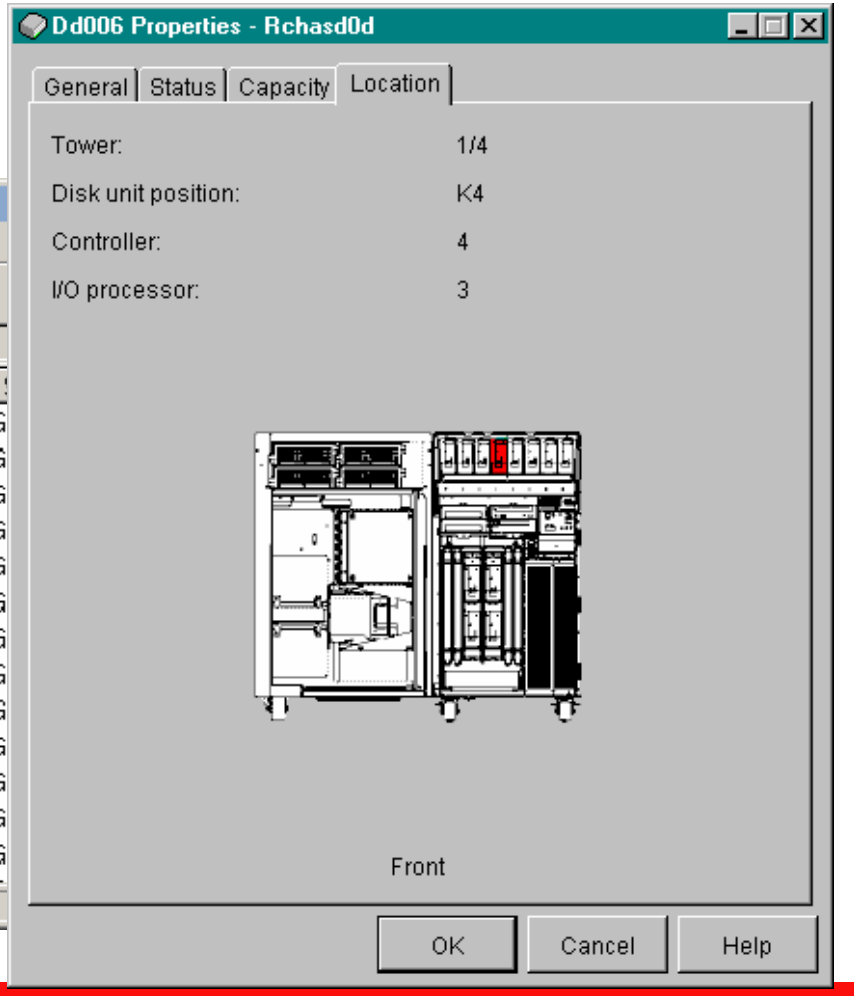
Disk Units

Configuration and Service

- One place for all DASD info and tasks
- Location information via pictures!





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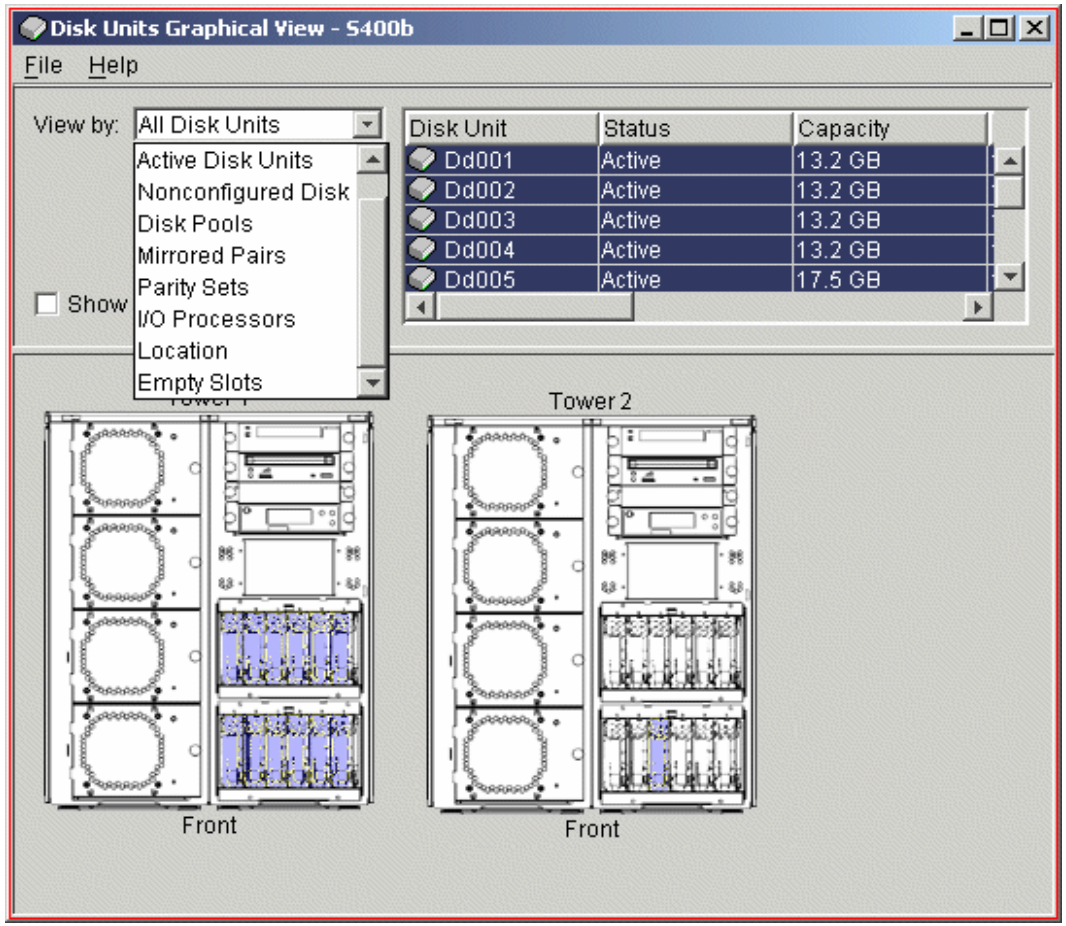
Disk Units

Configuration and Service

- Graphical View
  - View where disk units are
  - Mouse over to see status
  - Click empty slots and add a disk unit
  - Print the Graphical View for records and reference.



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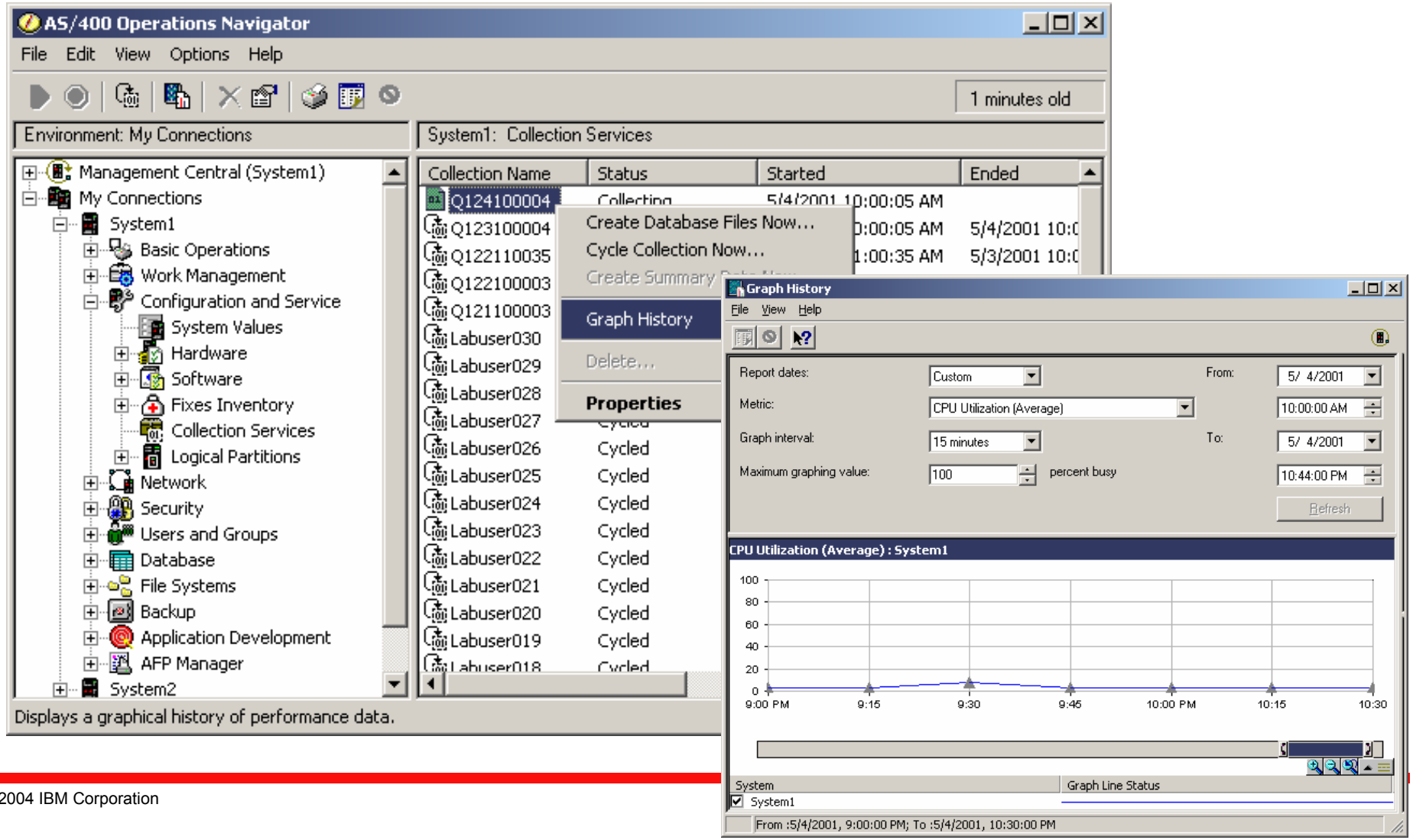
Graph History

Configuration and Service



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Network

Setup TCP/IP interfaces, routes...

View and Manager Servers

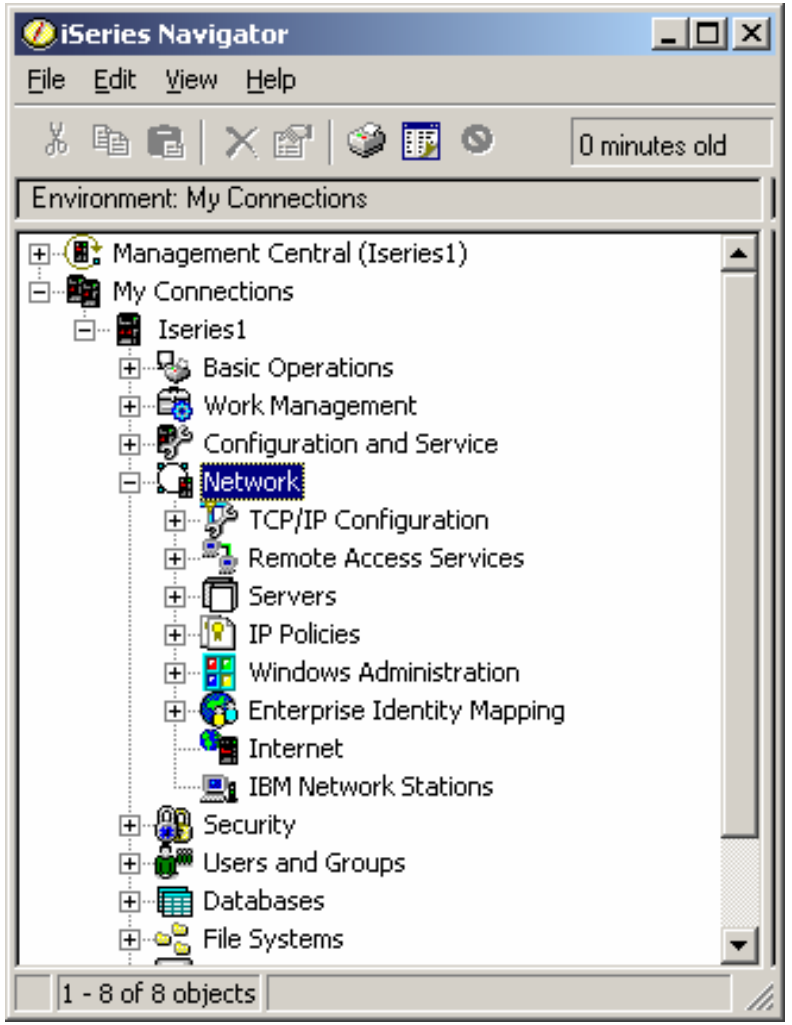
- TCP/IP, Client Access and DNS
- Create own too!!

Manage Windows users

Enterprise Identity Mapping

Configure your system for the Web

- Such as HTTP...



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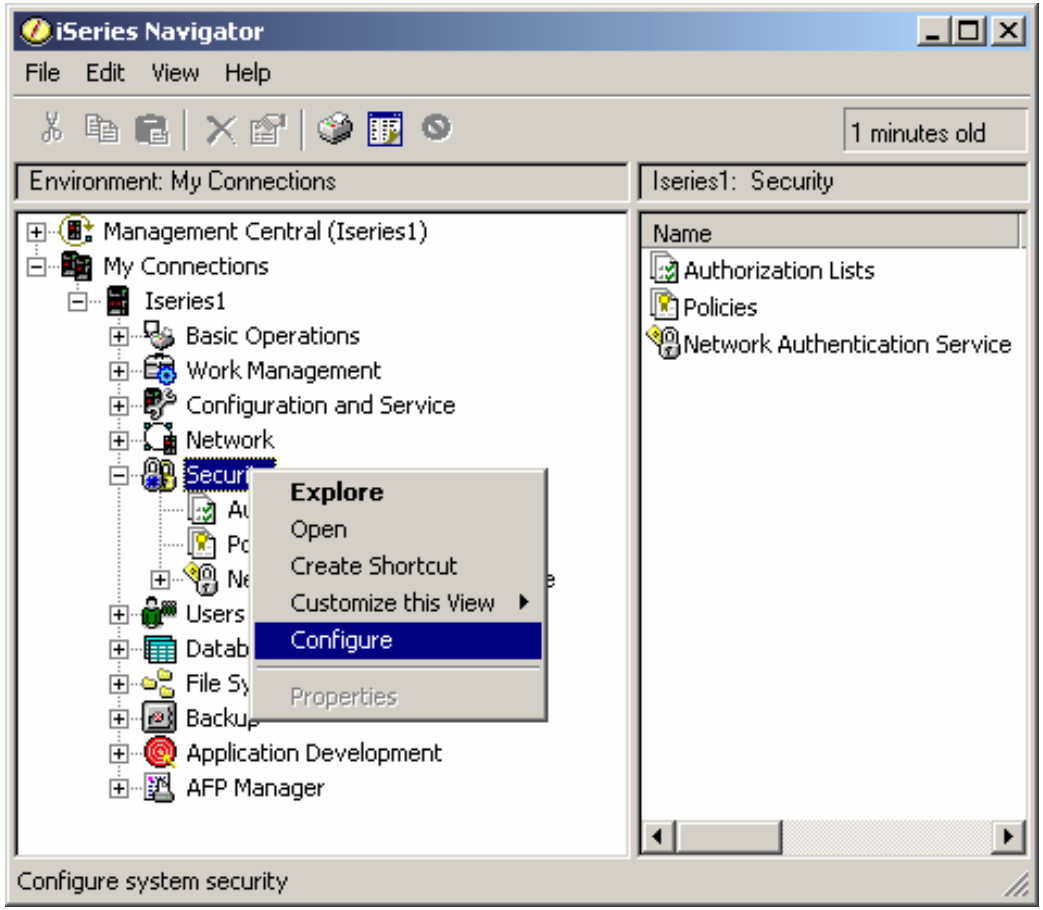
Security

Secure objects with authorization lists

Security Wizard!!!!

- Advisor for system values
- Enabled with undo option
- Creates reports for review
- Access from Security Folder



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Users and Groups

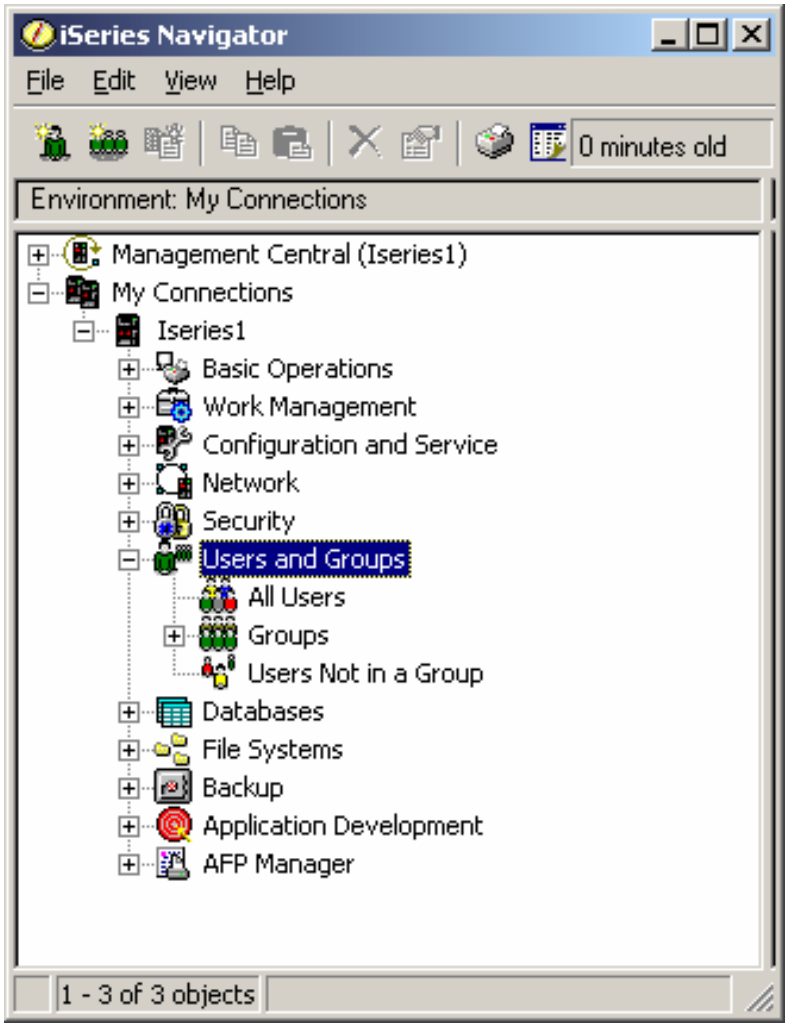
Users
- Create, Change, Delete, Copy
- Edit and Send
- Add users to groups

Group Profiles
- Create, Change, Delete, Copy

User Definitions

Scheduled Tasks

Inventory
- Search on user attributes



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Databases

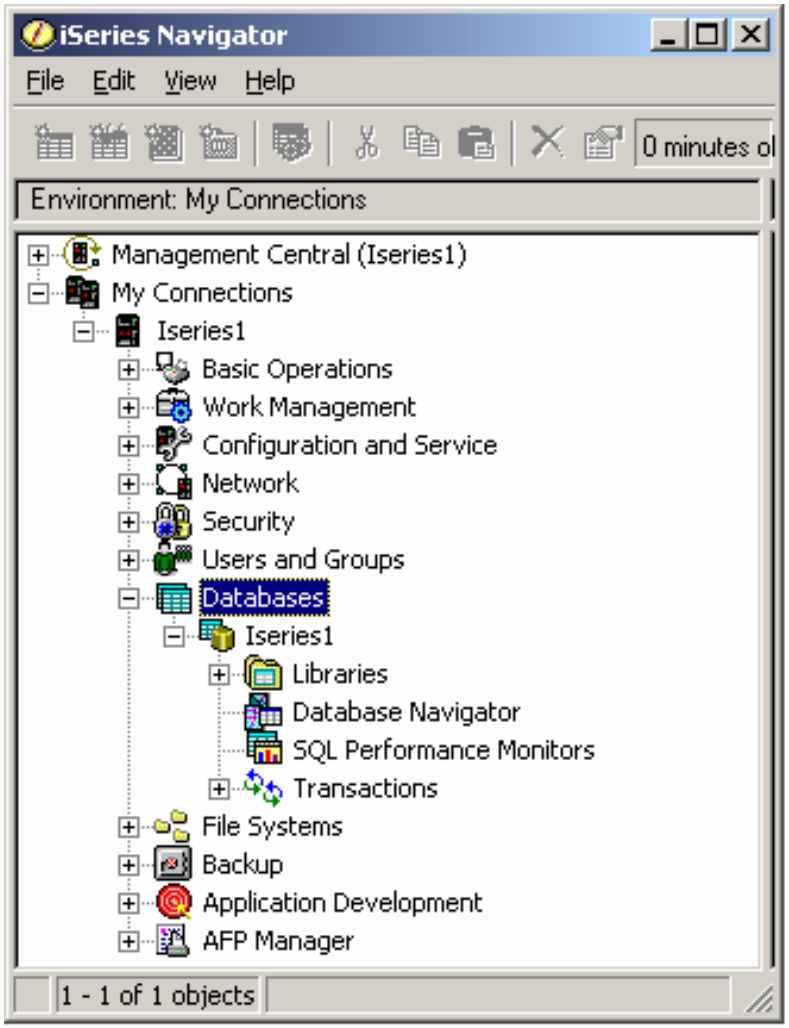
Filter search library

Manage database objects
- Tables, Views, etc...

Run SQL Scripts*

View graphical relationships

View graphical execution flow*
- Find the bottlenecks!!!



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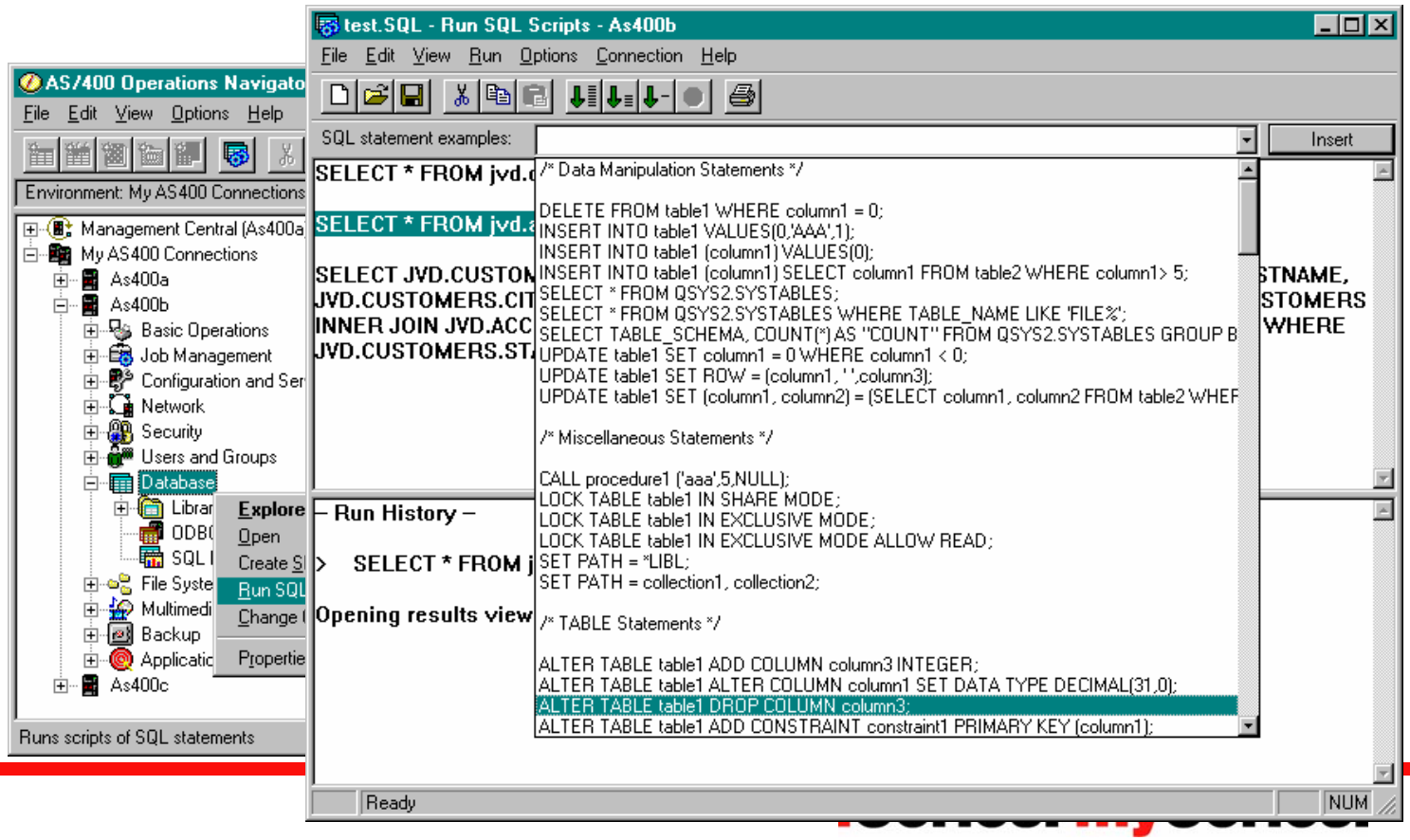
Run SQL Scripts

Database

- Create, save, run SQL Scripts
  - Document editor interface associated to files of .SQL
  - Run all, selected, or single statements
  - SQL examples can be inserted and modified



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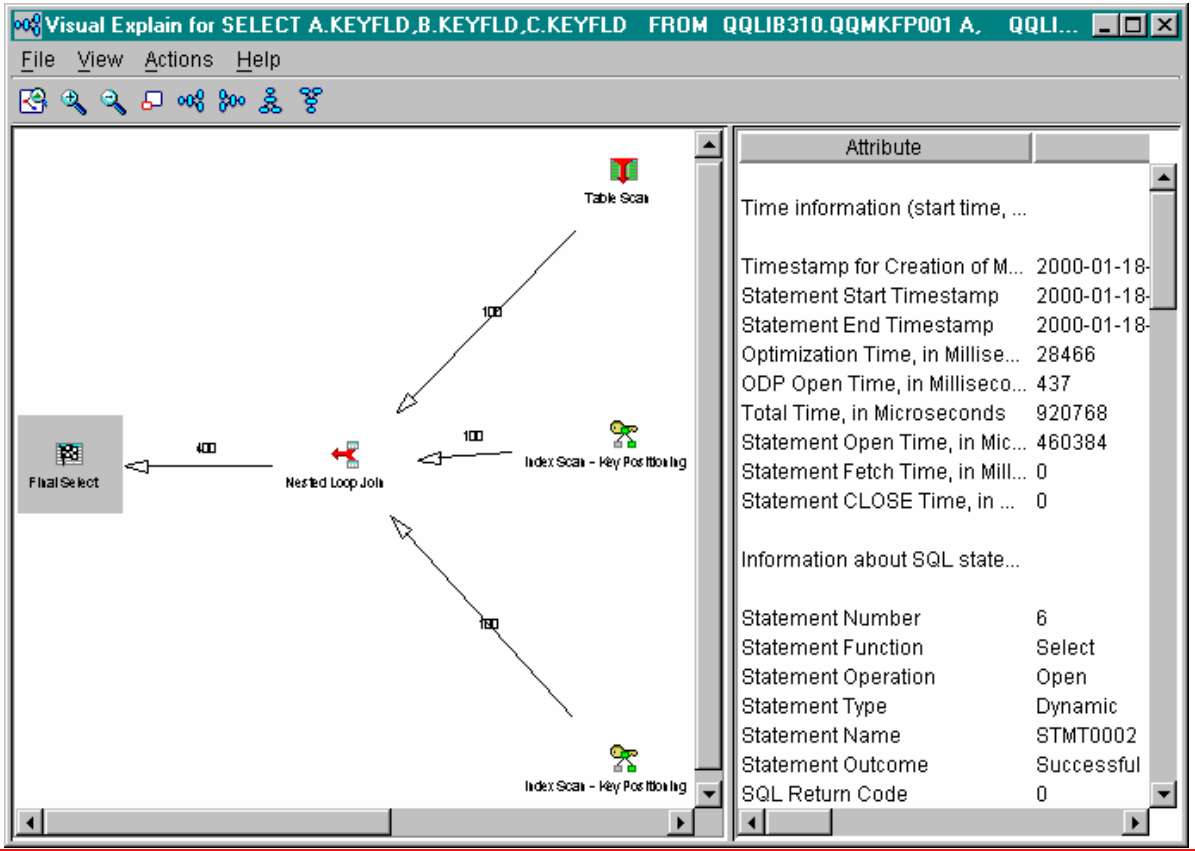
Visual Explain

Database

- **Pictorial view of query execution**
- **Understand execution flow for performance tuning**

- Mouse over an icon to get brief info about that step
- Icons represent steps during SQL execution
- Details pane on the right provides detailed info for a selected step



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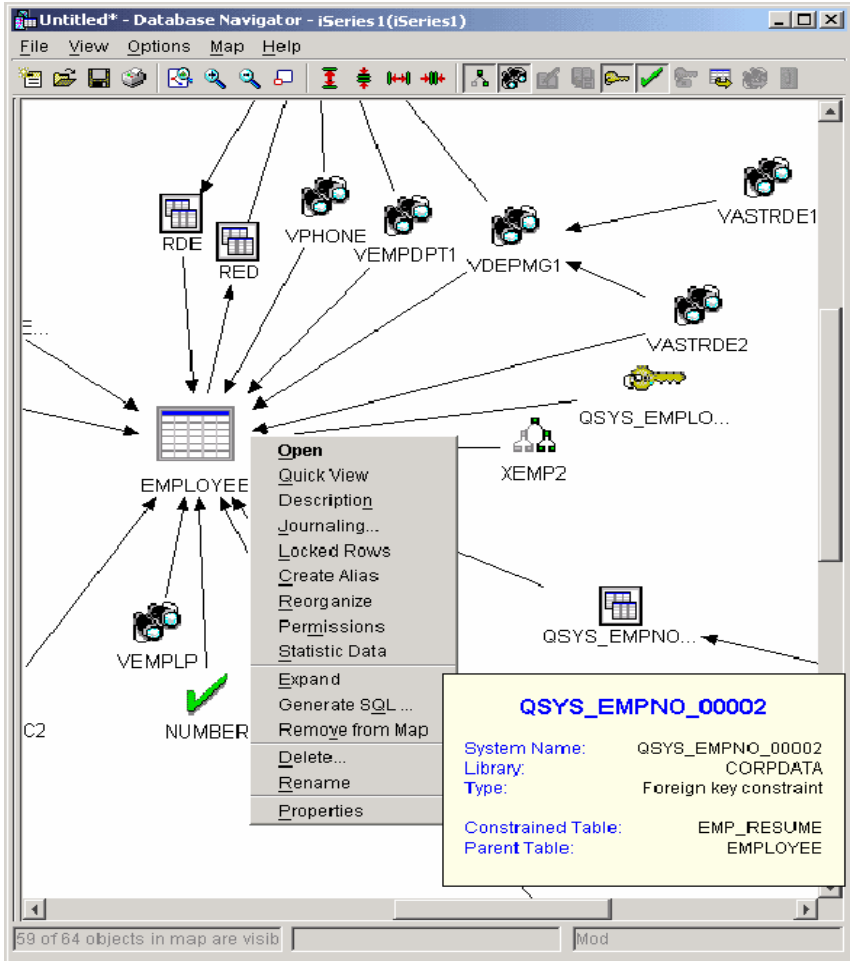
Database Navigator

Database

- **Pictorial view of query execution**
- **Understand execution flow for performance tuning**



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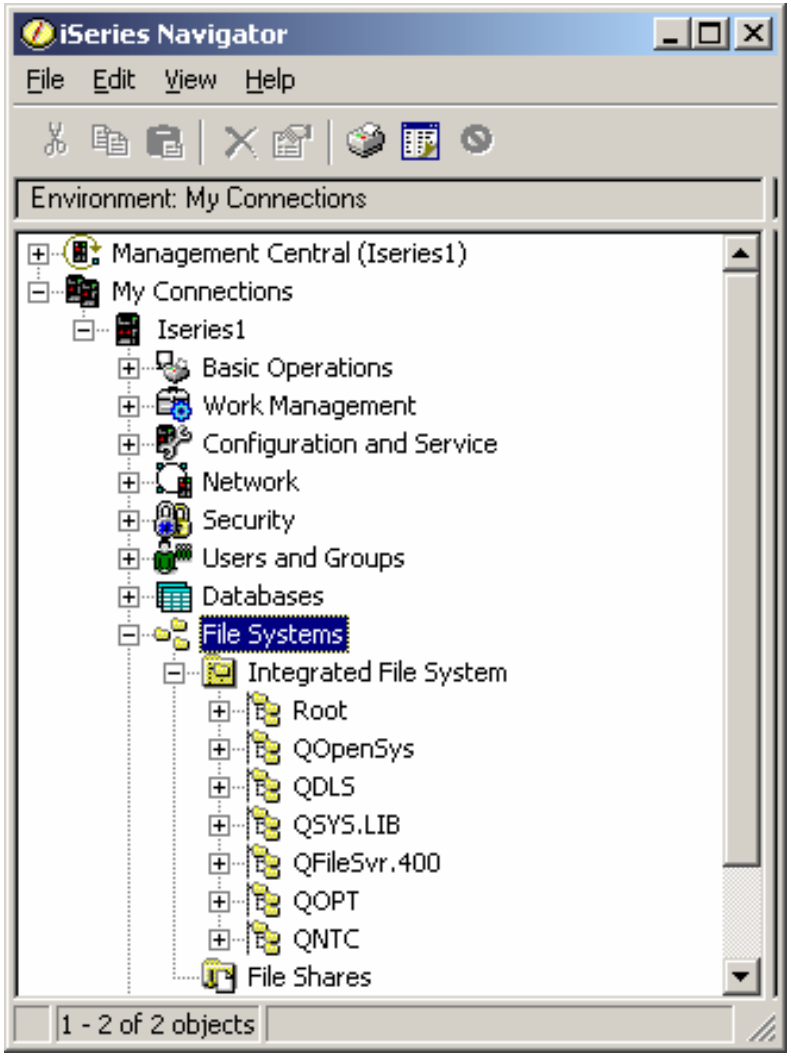
File Systems

- Cut, Copy, Paste or Drag/Drop
  - ... between systems
  - ... to the PC desktop
  - ... send to multiple systems
- Create, Rename and Delete
  - ... folders
  - ... objects
- Integrated editor for Text
  - Enable through File Systems Properties
- And MORE!!!!



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Managing Multiple Systems

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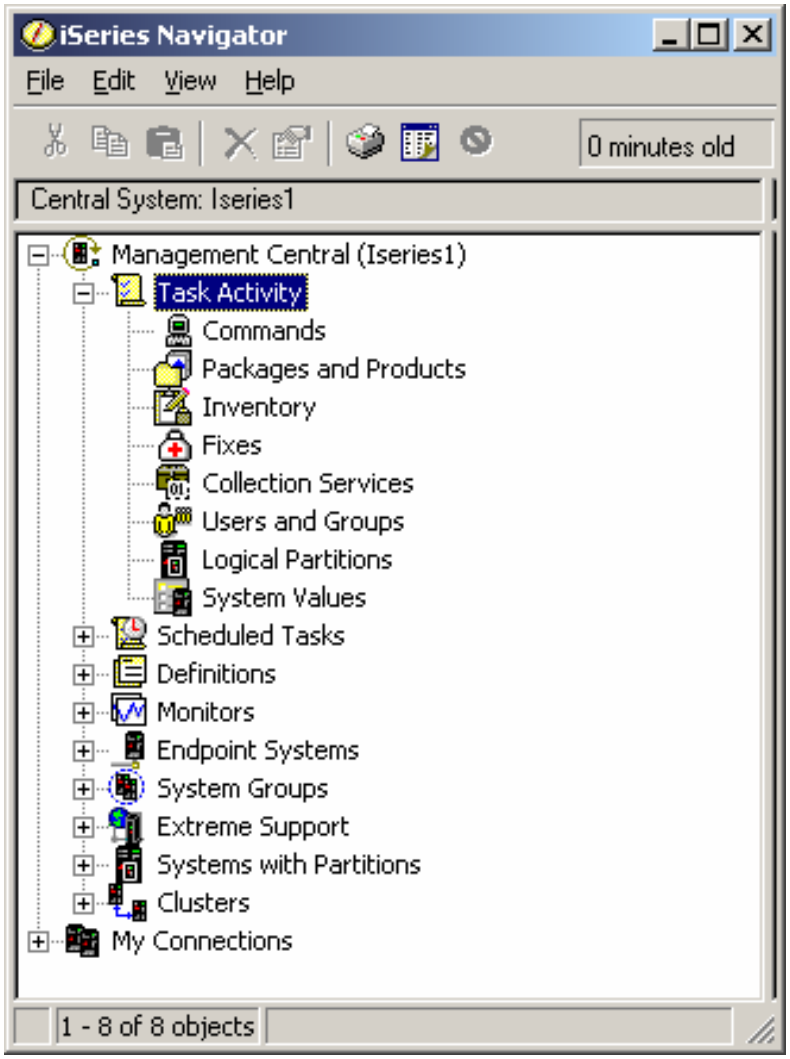
Task Activity

Management Central

- Run Commands
- Distribute software and files
- Obtain inventory to display, search, export
- Simplify service through fixes and fix groups
- Collect performance information
- Manage user and groups
- Edit system settings
- Scheduling options available



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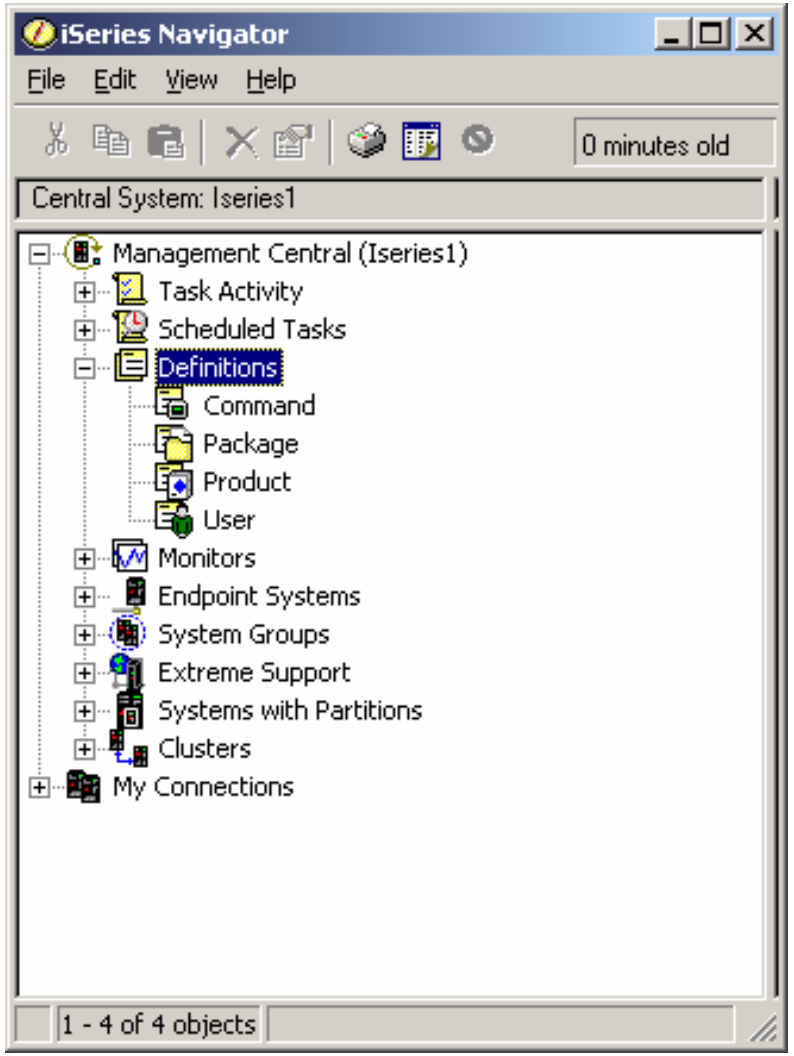
Definitions

Management Central

- Do it once and reuse!!!!
- Remember complex commands
- Group objects for distribution
- Make your own products
- Create template for users



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Monitors

Management Central

Watch your system while away!!!

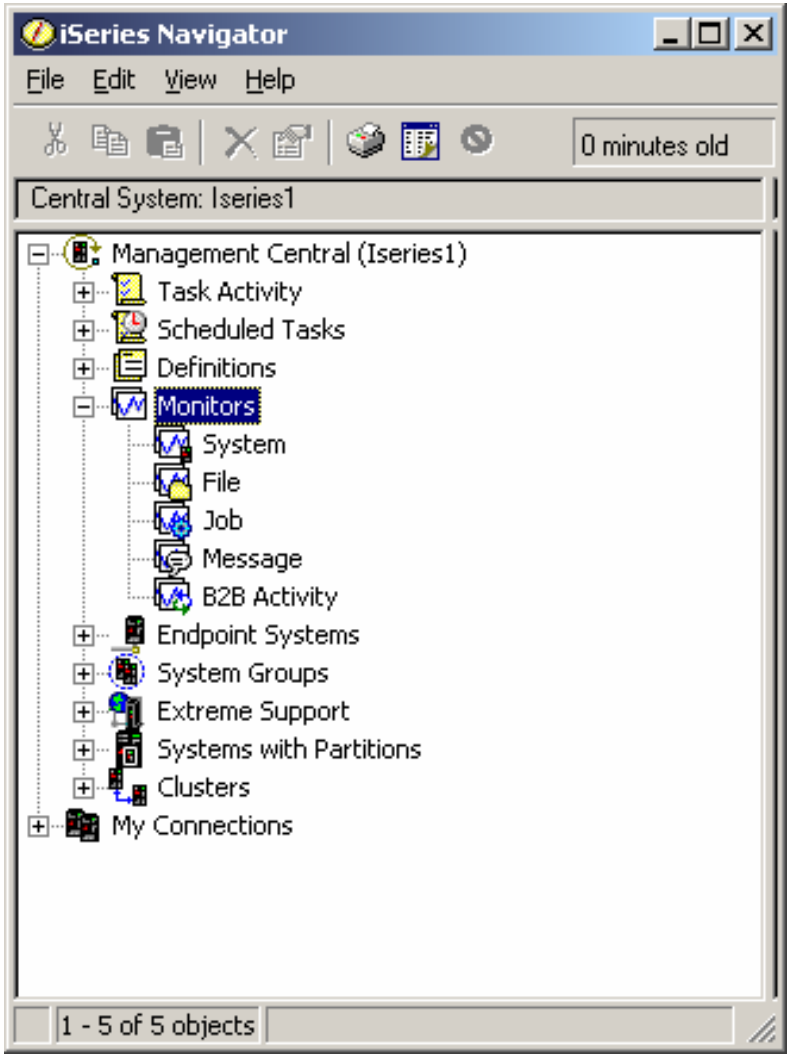
Handle performance issues

Locate troublesome files

Keep control of jobs

Know immediately about messages

Find bottlenecks with B2B activity



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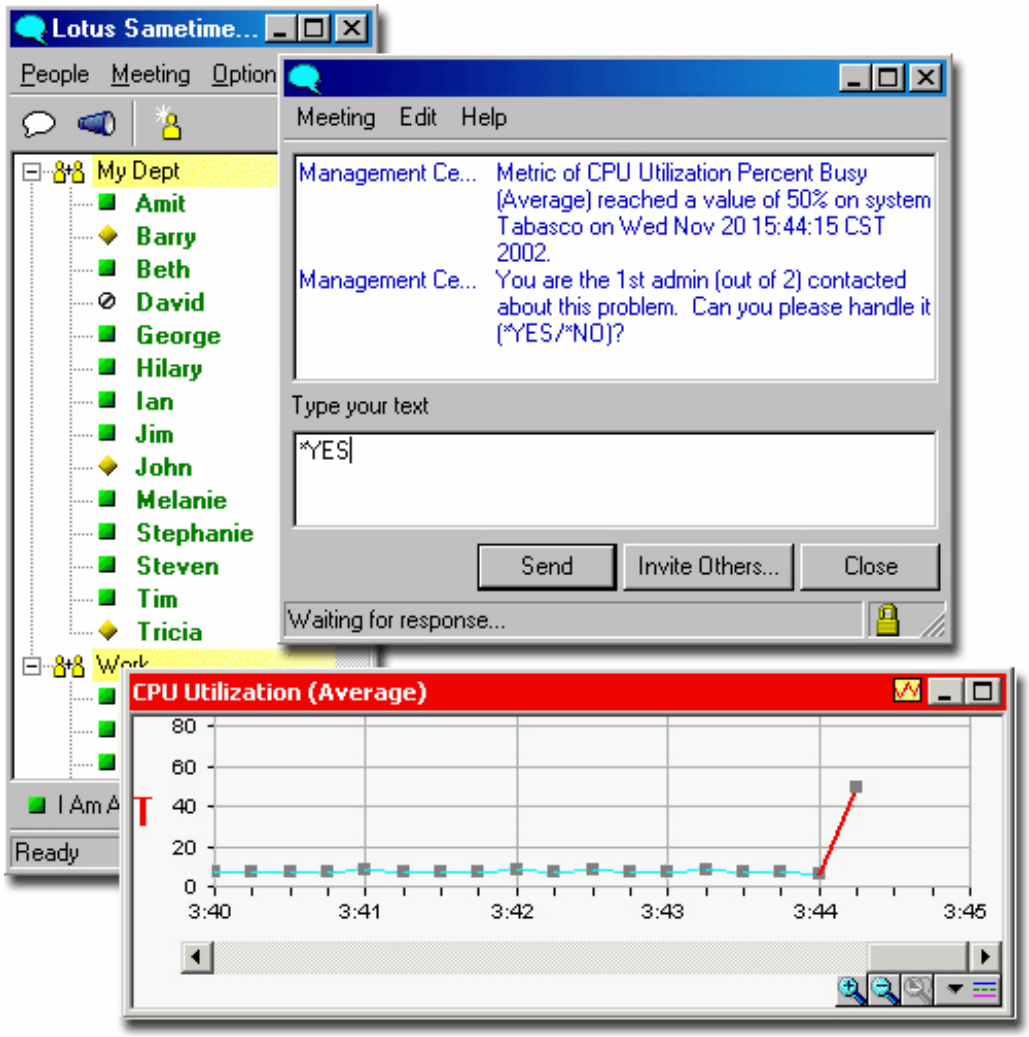
Lotus Sametime & iSeries Navigator



Improves operator productivity with instant message response to system events

Integrates i5/OS V5R3 monitoring with Sametime instant messaging

Assures response with automatic event delegation through hierarchy of designated operators

New

www.alphaworks.ibm.com/tech/eventmonitor

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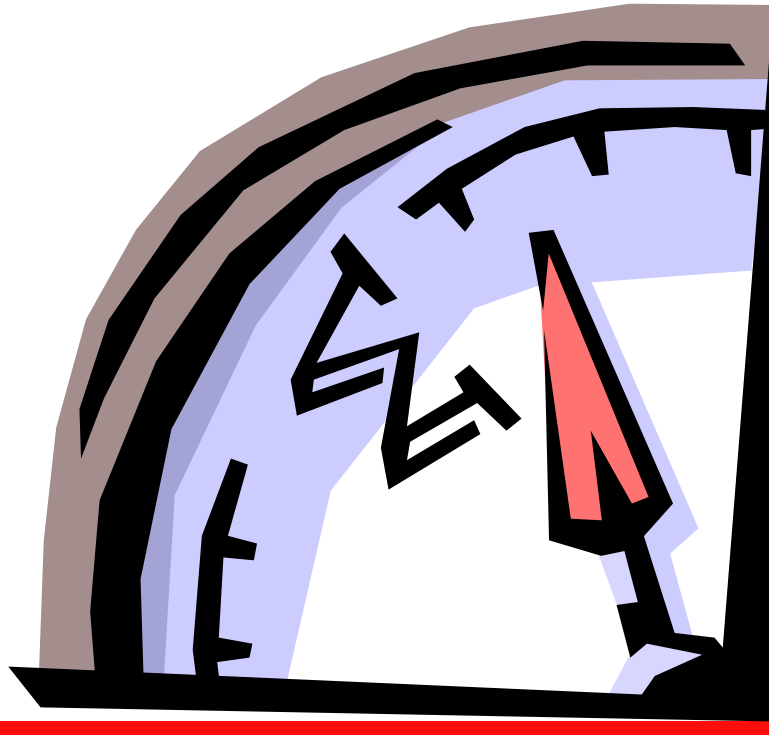
What's New in V5R3

1. Management Central
2. Configuration and Service
3. Network
4. Databases
5. Integrated File System
6. Intelligent Agents
7. AFP Manager
8. Backup and BRMS
9. Advanced Job Scheduler
10. Usability Enhancements
11. iSeries Navigator tasks from the web



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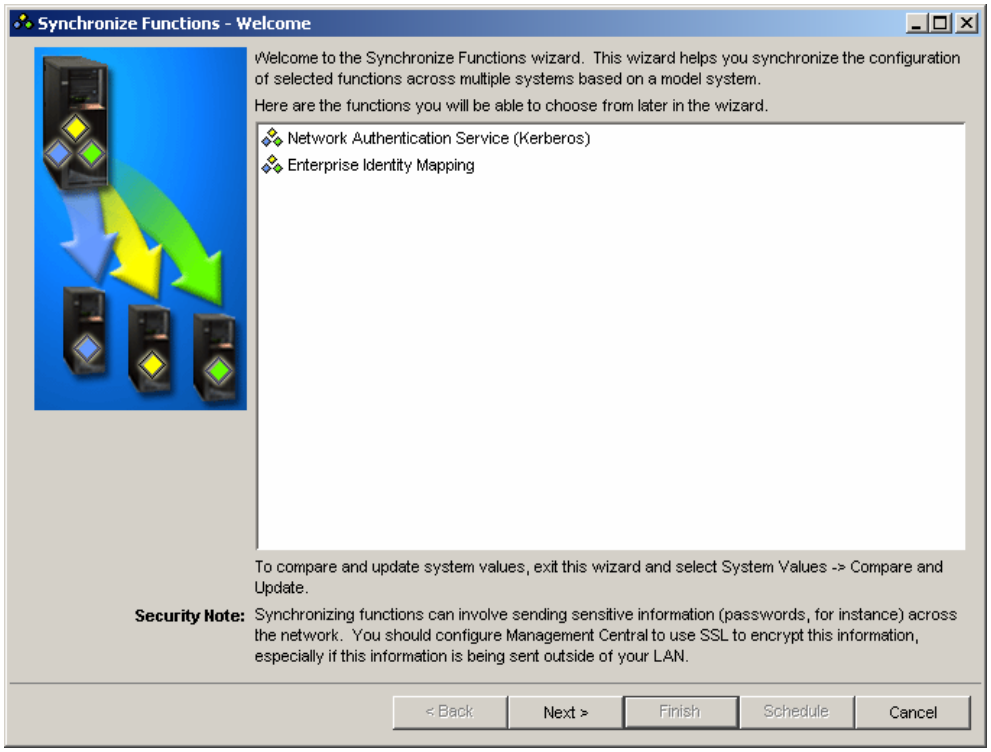
Management Central

- **Synchronize functions**
  - –Key functions, such as EIM and Network Authentication Service (Kerberos), can be synchronized across a group of endpoint systems.
- **New Collection Services categories**
  - –Two categories were added to the Data to Collect dialog: one for cross partition data and another one for data port services data.
- **New System Monitor properties fields**
  - –Fields related to multipath disk units and remotely mirrored independent auxiliary storage pools were added to these System Monitor metrics: Disk Arm Utilization (Average), Disk Arm Utilization (Maximum), Disk Storage (Average), and Disk Storage (Maximum).
  - –New method for calculating CPU utilization in partitions was introduced
- **Electronic Service Agent is integrated into the base OS/400 operating system**
- **Now Highly Available and Scalable**



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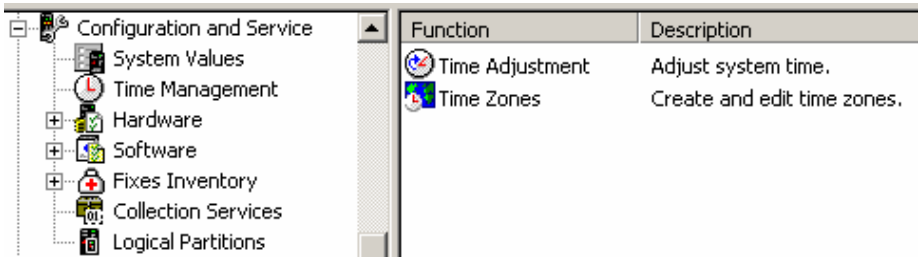
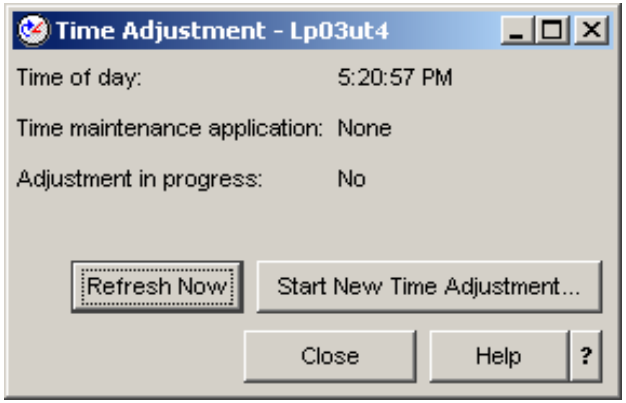
Configuration and Service

- **Additional System Values**
  - –Auditing, Date and Time, Jobs, Performance, Security, Save and Restore
- **Time Management**
  - –From the Time Management function, you can manage time zones and adjust system time
- **Disk Management**
  - –Configure and manage geographic mirroring for independent disk pools.
  - –Print the Graphical View for records and reference.
  - –Optimize parity sets for availability.
  - –Support Windows disk drive maximum size of 1000 GB
  - –Retrieve disk unit logs to gather information about specific disk units.
  - –View multi-path disk unit connections from several input/output processors on an iSeries server to a single disk unit in the Enterprise Storage Server.





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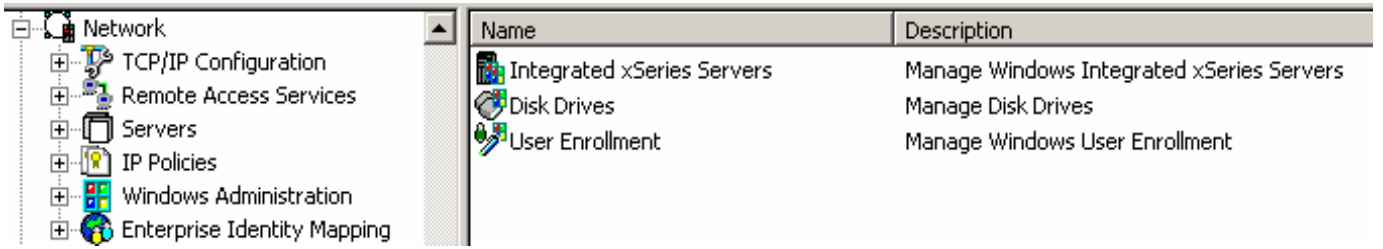
Network



Windows Administration

- Additional properties
- View information for Windows disk drive volumes
- Support Windows disk drive maximum size of 1000 GB
- Allow enrolled OS/400 users to have a different name on Windows than on OS/400

Directory Service

- Administer the directory server from one common Web GUI
- The Performance property page allows you to specify cache settings for the server
- New Password property page security enhancements
- The Connect to Directory Server Kerberos authentication
- Search property page allows you to control sorted/paged search results, restricts access to ACL attributes on entries

SNTP

- Configure an SNTP server to use your iSeries for time synchronization across your network

iSeries NetServer

- The General > Next Start property page allows you to select both encrypted passwords and Kerberos v5 as the authentication method

Enterprise Identity Mapping (EIM)

- Work with digital certificates as a type of user identity
- EIM now has mapping policy support for defining many-to-one mappings through policy associations
- EIM now provides the ability to test your EIM mappings

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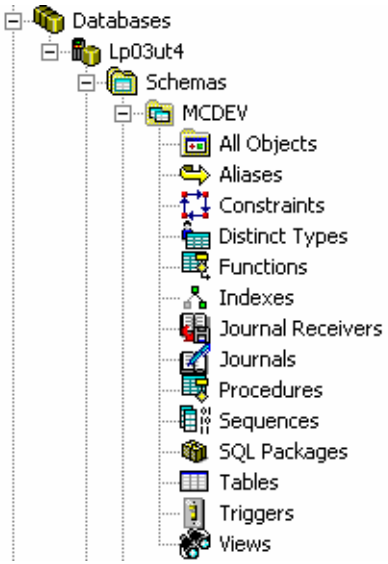
Databases

- New structure
  - –Objects are now organized by container
- Library support supports the SQL object Schema.
  - –You can still create simply libraries from the Create Schema dialog.
- Sequence objects.
- Reorganizing tables enhanced to allow stopping and resuming a table reorganization as well as viewing the progress.
- Manage your check pending constraints from iSeries Navigator
- Partitioned tables allows you to more easily manage large amounts of data.
- Materialized query tables speed access to source tables by providing precomputed result sets for specified queries.
- Launch the iSeries Graphical Debugger to debug your SQL statement from Run SQL Scripts.
- View the SQL used to perform a database action



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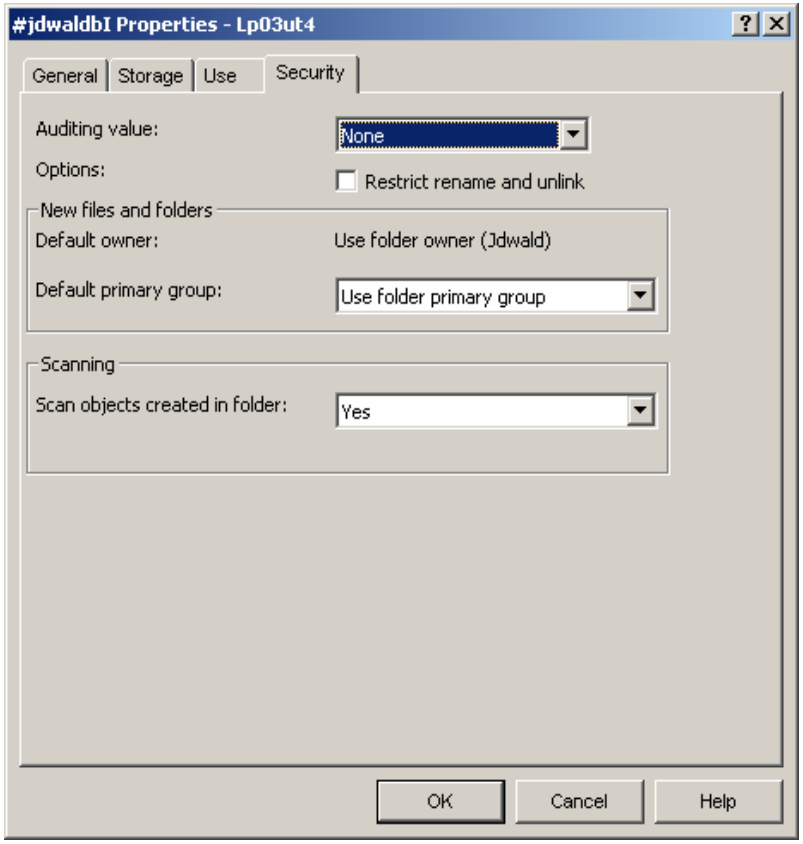
Integrated File System

- New security page
  - –sets scanning settings for objects created in files and folders. Also specify auditing value, change options, user ID, and Primary group ID
- Ability to make objects savable
- Ability to set objects created in a folder to be scanned.
- Restrict rename and unlink
- User Defined File Systems (UDFS) enhancements
  - –Setting objects to be scanned
  - –Restricting rename and unlink
  - –Specify a default file format for UDFS
  - –User and group ID settings can now be changed on a mounted UDFS.



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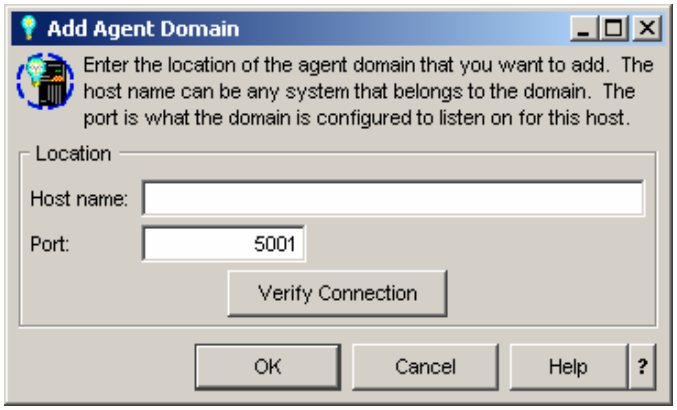
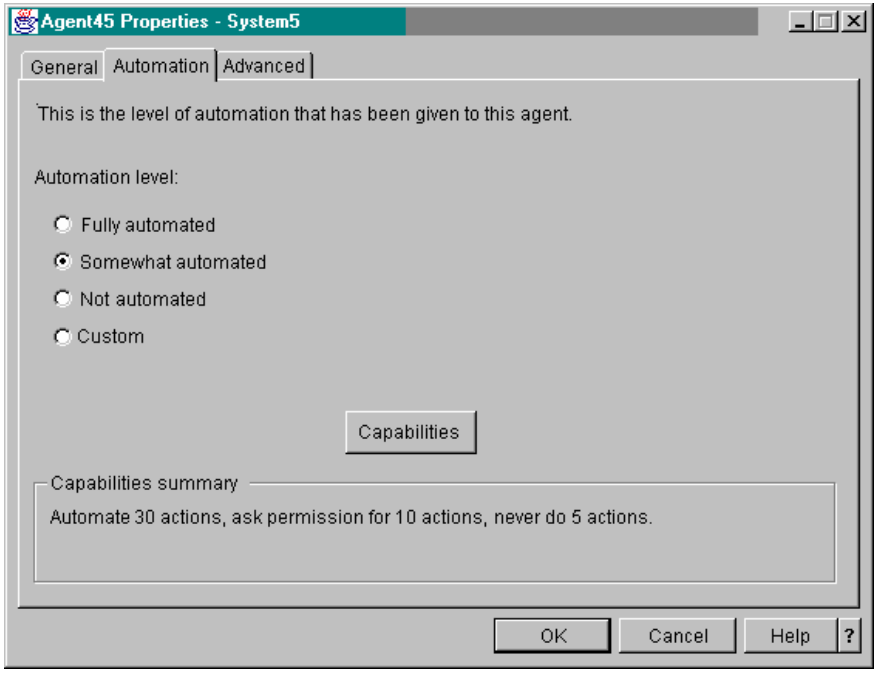
Intelligent Agents

- Intelligent Agents provides system administrators with an easy way to manage many ABLE (Agent Building and Learning Environment) agents running on different systems.





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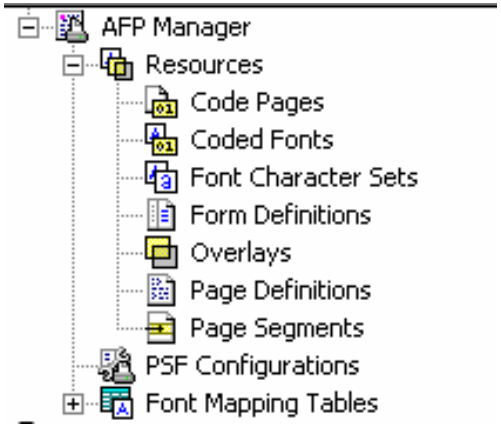
AFP Manager

- Extended capabilities
  - –Intelligent routing lets you specify any combination of stream file, spooled file, or e-mail for the PDF output files.
  - –Respool the input file (or a segment of the input file) as AFP for print or fax.
  - –Specify a PDF administrator to receive e-mailed failure messages with the PDF file attached for simplified reprocessing
  - –Encryption options for the e-mailed PDF
  - –PDF mapping objects let you access functions that require a mapping program without having to write a program.



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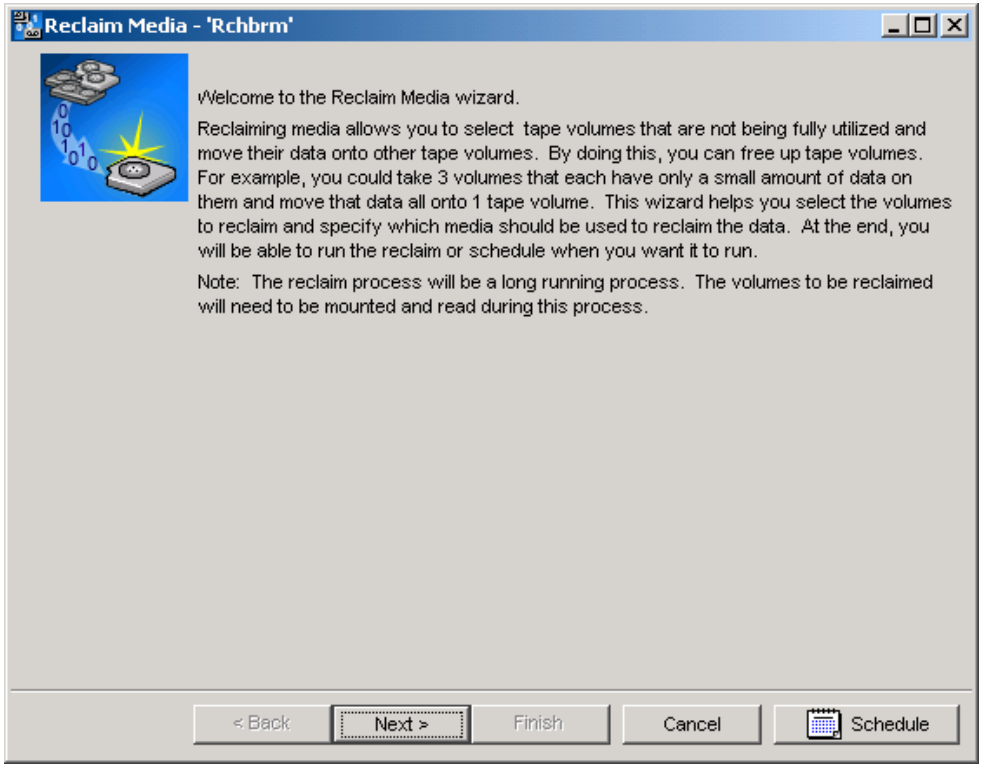
Backup and BRMS

- Restore printer output and archive objects
- Perform a fully automated backup in BRMS.
- New Global Policy Properties for Maintenance, Retrieval and Network options
- Manage your BRMS devices which include any standalone devices, media libraries, and Tivoli Storage Manager (TSM) servers used by BRMS
- A new Reclaim wizard enables you to reclaim old fragmented tape volumes and make them usable again
- View or save selected BRMS reports in HTML
- Backup policy now allows omits of folders, libraries, and library objects
- Enhanced search of backup history



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Advanced Job Scheduler

- Advanced Job Scheduler for Wireless - Work with Advanced Job Scheduler using a wireless device such as a PDA
- Automatically notify a specified recipient via email, also attach printer output in PDF format to e-mail messages
- New job properties
  - –Local data area
  - –Command step
  - –Create and work with job documentation
- New Advanced Job Scheduler properties
  - –Fiscal calendar
  - –Data libraries
  - –Skip count feature
  - –Multiple scheduling environments
  - –Skip dependency
  - –Monitor jobs not started within time limit
  - –Report distribution

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Other Usability Enhancements

- Choose to automatically open task results window when starting a task
- Connection status dialog for connecting to the central system
- Ability to edit IP address of endpoint system
- Auto reset your file and message monitors after a command has been run
- Exporting inventory to a new format type to support Unicode
- Performance advisor designed to help determine why you're experiencing slow performance (Detailed next page)
- More complete search results when searching for users across systems
- Copy from Media enhancement allowing concurrent copying from different systems
- Printer Output and Messages folder have been overhauled to include many usability enhancements
- TCP/IP Enhancements
  - Enhancements to SNTP & SMTP server support
  - Addition of CIMOM server support
  - Addition of significant new Quality of Service (QoS) function
  - eCare connectivity enhancements (for setting up connection to IBM support)

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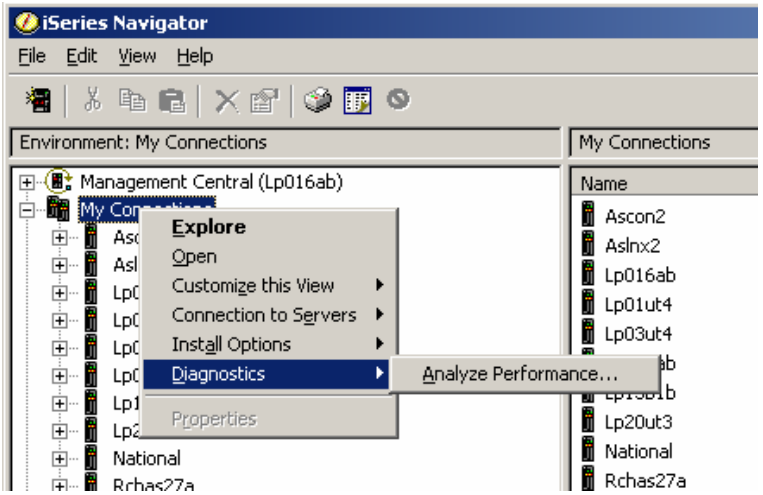
Performance Advisor

- Examines your iSeries Navigator environment and makes recommendations of how your performance may be improved
- Checks the following areas
  - Your PC
  - Your Network
  - Your iSeries Environment



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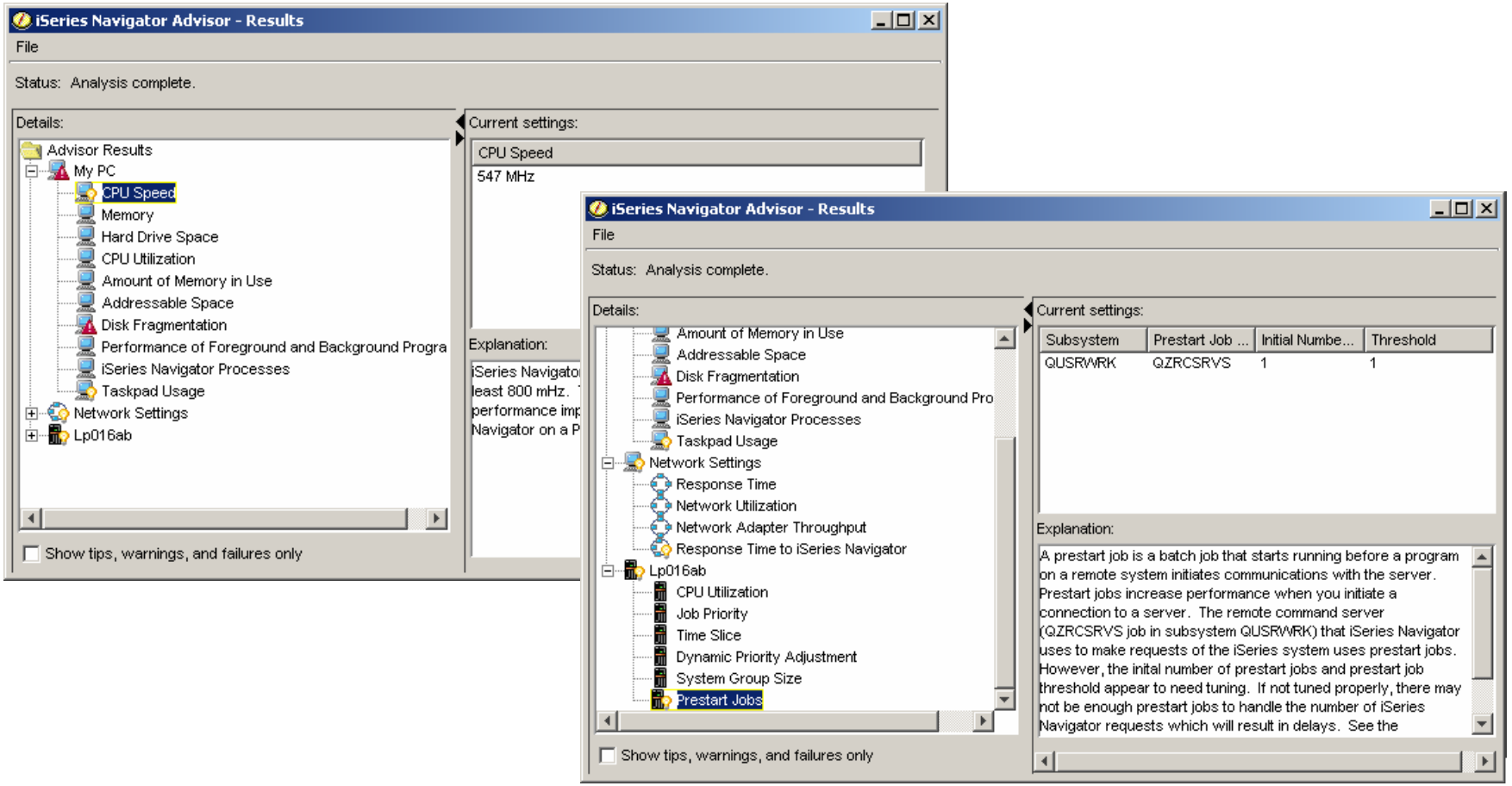
Performance Advisor



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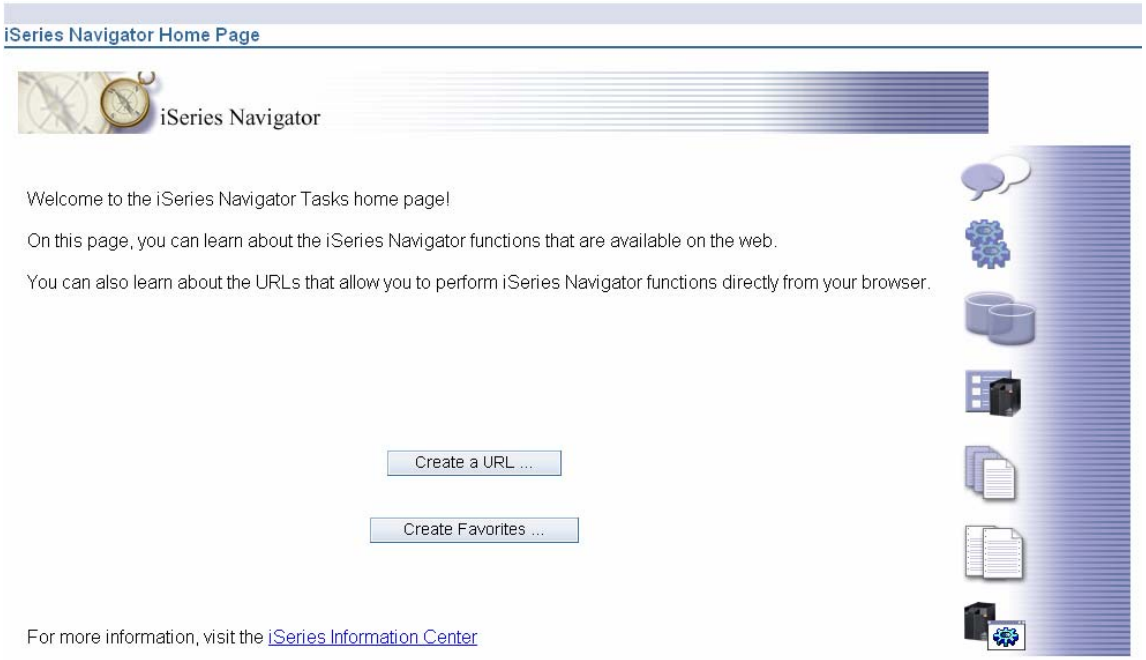
iSeries Navigator Tasks from the Web

- Access core systems management tasks from your browser
  - Printer output
  - Jobs
  - Messages
  - Work Management
  - System Values
  - Database
- Access multiple systems through one iSeries from a web browser
- Embed these tasks into your Web applications



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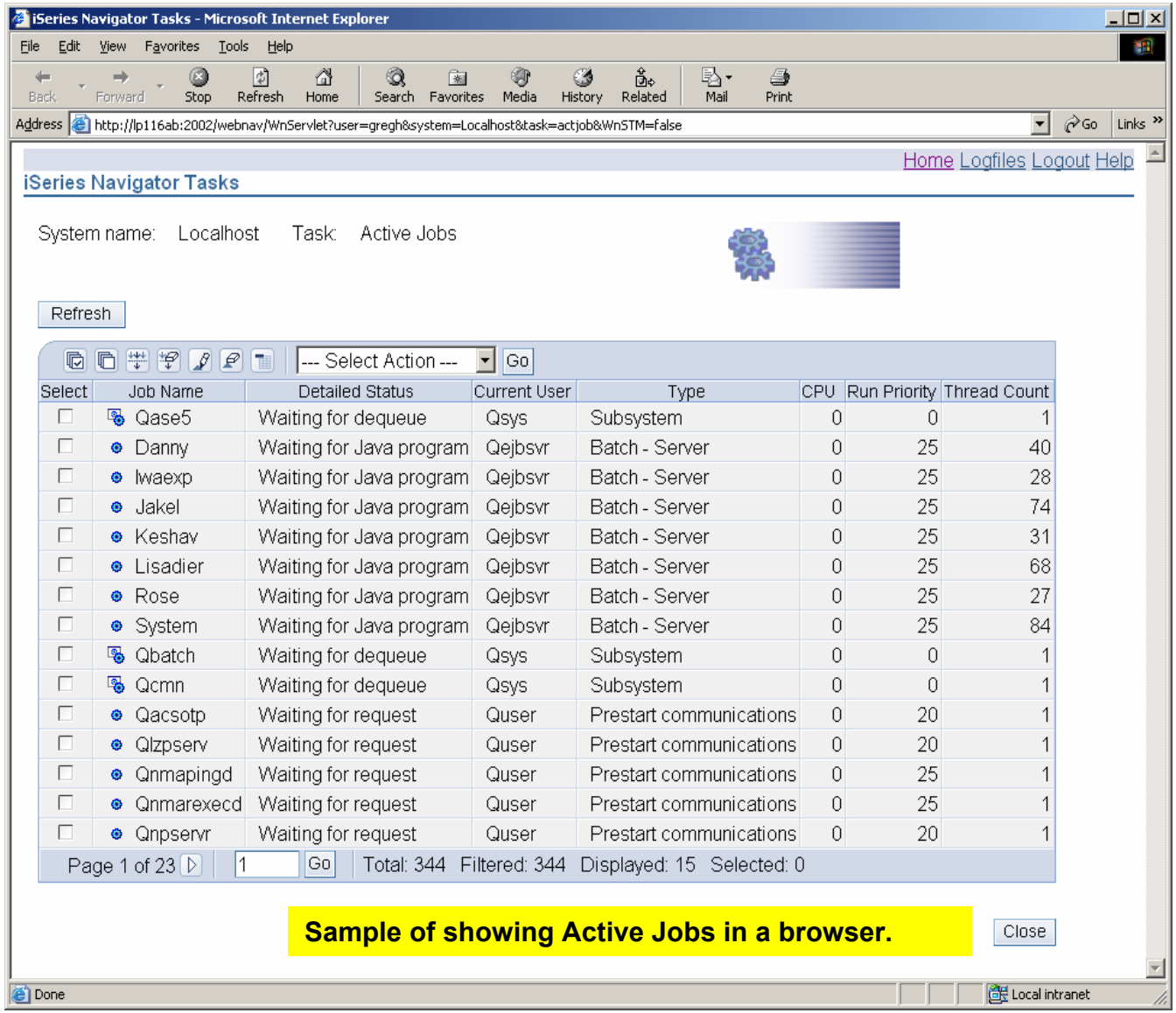

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iSeries. mySeries.

Where to Get More Information

iSeries Navigator Web Site

- www.ibm.com/eserver/iseries/navigator
  - Articles
  - Presentations
  - Demos
  - Redbooks
  - FAQs
  - Information APARs
  - Performance Tips
  - And more!

Information Center

- www.ibm.com/eserver/iseries/infocenter

Virtualization Engine Web Site

- www.ibm.com/eserver/about/virtualization

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What We Covered

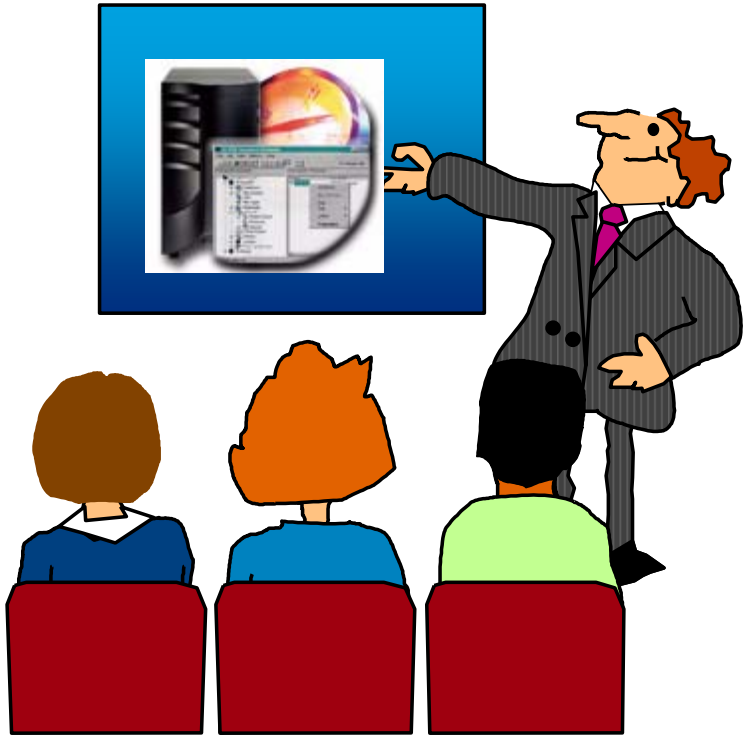
Concepts

Getting Started

Power Techniques

Features
- Using Single Connections
- Centrally Managing your iSeries Systems
- New for V5R3

More information



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