

# **User Guide**

bv-Control<sup>®</sup> for NDS<sup>®</sup> eDirectory<sup>™</sup>





# **bv-Control**<sub>®</sub> for NDS<sub>®</sub> eDirectory<sup>™</sup> v8.00

User Guide

BindView Corporation  $\cdot$  5151 San Felipe, Suite 2500  $\cdot$  Houston, TX 77056

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### July 2004

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## **Information Resources**

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About BindView Corporation	BindView Corporation is a leading provider of proactive business policy, IT security and directory management software worldwide. BindView solutions and services enable customers to centralize and automate policy compliance, vulnerability management, directory administration and migration across the entire organization. With BindView insight at work <sup>™</sup> , customers benefit from reduced risk and improved operational efficiencies with a verifiable return on investment. More than 20 million licenses have shipped to 5,000 companies worldwide, spanning all major business segments and the public sector.
Online Documents	Documentation is provided in the following electronic formats on the BindView product CD:
	Adobe® Acrobat® PDF files
	HTML Release Notes files
	Online help
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User Guides	The Docs directory on the BindView product CD contains copies of the user guides and other documentation in the PDF format.
	The <i>bv-Control for NDS eDirectory User Guide</i> contains information about <i>bv-Control for NDS eDirectory</i> v8.00 and about the BindView RMS Console and Information Server v8.00. If you upgrade the BindView RMS Console and Information Server, the <i>BindView RMS</i> <i>Console and Information Server User Guide</i> included with the update will contain information about the new version of the Console.

Release Notes	If the autorun function is enabled, a Readme HTML file for your BindView product is accessible under the Documentation menu of the BindView setup menu when you insert your CD. You also can select to view this file after the installation is completed, or by browsing to the Release Notes directory in the root directory for your program: C:\Program Files\BindView\RMS\Release Notes
Online Help	Comprehensive help is available from the Help menu on the BindView RMS Console and the BindView RMS Web Console. Additionally, you can access help by clicking the <b>Help</b> button in any dialog, by right-clicking an item and selecting <b>Help</b> from the action menu, or by pressing <b>F1</b> in any dialog.
Typestyle Conventions	<ul> <li>The following conventions are observed throughout this guide:</li> <li>Bold text is used to designate file and folder names, dialog titles, names of buttons, icons, and menus, and terms that are objects of a user selection.</li> <li><i>Italic</i> text is used for word emphasis, defined terms, and manual titles.</li> <li>Monospace text (Courier) is used to show literal text as you would enter it, or as it would appear onscreen.</li> </ul>
Alert Statements	The alerting statements are Notes, Cautions, and Warnings. These statements are formatted in the following style: <b>Note:</b> Information that is incidental to the main text flow, or to an important point or tip provided in addition to the previous statement or instruction. <b>Caution:</b> Advises of machine or data error that could occur should the user fail to take or avoid a specified action. <b>Warning:</b> Requires immediate action by the user to prevent actual loss of data or where an action is irreversible, or when physical damage to the machine or devices is possible.

# Contacting<br/>BindViewBindView has sales and support offices around the world. For<br/>information on contacting BindView, please refer to the information<br/>below or to the BindView Web site: <a href="http://www.bindview.com">www.bindview.com</a>

### For Technical Support: www.bindview.com/support

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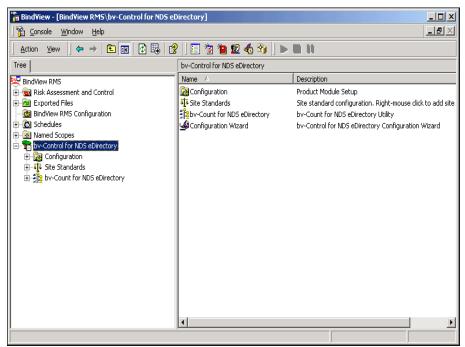
## 1 Overview

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#### **BindView RMS** Console The BindView RMS® product installs as a Snap-in to the Microsoft Management Console (MMC). The MMC is a host application which provides a common interface for management Snap-ins, such as

Management Console (MMC). The MMC is a host application which provides a common interface for management Snap-ins, such as the BindView RMS Console. For detailed information about how to use and configure the MMC, consult **Help Topics** from the MMC **Help** menu, or consult the MMC home page at www.microsoft.com. The BindView RMS Console provides a platform for and essential services to the bv-Control® for NDS® eDirectory<sup>™</sup> product.

Together, the BindView RMS Console and bv-Control for NDS eDirectory provide a complete solution to help you view and manage your NDS environment. At the same time, the BindView RMS Console can host other BindView products, giving you an integrated view of your network resources. Fig. 1 shows the BindView RMS Console user interface.



**Fig. 1** BindView RMS Console User Interface

You use the BindView RMS Console to create a query to collect information about your NDS environment. Once the query has been processed and the information collected from your NDS environment, the BindView RMS Console can display it in a grid, a chart, or a report.

For complete details on using the BindView RMS Console, please consult the *BindView RMS Console and Information Server User Guide* in conjunction with this guide.

bv-Control for NDS eDirectory	The bv-Control for NDS eDirectory product installs into the BindView RMS Console, extending the console's capabilities. With the bv- Control for NDS eDirectory module, the BindView RMS Console can access information from NDS trees on your enterprise network. Using bv-Control for NDS eDirectory, you can view and manage the trees, containers, groups, users and other objects in NDS. You can use the query tools supplied by the BindView RMS Console to select and filter items in grids, charts, and reports based on conditions you specify. In addition, bv-Control for NDS eDirectory provides the ability to enforce Site Standards. Together with other modules, bv- Control for NDS eDirectory and the BindView RMS Console provide a comprehensive administration solution across disparate platforms.
	With the release of bv-Control for NDS eDirectory v8.00, the speed of queries in certain data sources has been greatly improved. When executing queries on the User, Group, and Object data sources, users should experience speed improvements of a magnitude of more than three times faster than version 7.5, and almost twice as fast as BindView's bv-Control for NetWare EMS v6.5.
	<b>Note:</b> Factors such as overall network size, physical location, and network topology will still impact performance.
	The bv-Control for NDS eDirectory product is a <i>query-based</i> addition to the BindView RMS Console.
	In addition to the standard features provided by the BindView RMS Console, the release of bv-Control for NDS eDirectory v8.00 allows you to:
	<ul> <li>Edit the contents of fields in grids generated by a Query and have those values change on the server (ActiveAdmin).</li> </ul>
	<ul> <li>Generate audit logs to review changes made using ActiveAdmin.</li> <li>Compare users on your network to selected attributes of a standard user.</li> </ul>
ActiveAdmin	With ActiveAdmin <sup>®</sup> , you can make changes to user properties from within the BindView RMS Console. To help you, the following features are available:
	<ul> <li>Icons signifying editable fields in the list of available data sources</li> <li>Editable (ActiveAdmin) fields grouped in Available Fields lists</li> <li>A command that opens editors when you right-click in a grid</li> <li>ActiveAdmin editors associated with specific types of results which appear in a grid</li> </ul>
	<ul> <li>Dialogs for error messages generated by NDS if attempts to update NDS settings fail due to inadequate permissions</li> <li>ActiveAdmin permission settings in the Enter User Account Information dialog</li> </ul>
	<ul><li>Information dialog</li><li>An audit database and related fields that retain log information on all changes made using ActiveAdmin</li></ul>

Site Standards	Site Standards allow you to set up a model for users on your network and then determine how closely the attributes of standard users adhere to the ideal you created. The bv-Control for NDS eDirectory product provides the following features to help you create and use Site Standards:
	<ul><li>Ability to configure multiple, independent Site Standards</li><li>Site Standards fields in the list of available data sources</li><li>Ability to select which Site Standard to conform to from a dialog</li></ul>
Auditing	In addition to support for NDS features, bv-Control for NDS eDirectory provides auditing functionality that uses an approach similar to that of Novell's Auditcon. Using the bv-Control for NDS eDirectory Auditing feature, you can enable, configure, and run auditing queries.
	Auditors using the reporting feature of bv-Control for NDS eDirectory can generate reports against data sources. Reports can be generated from four different Audit File Types:
	<ul> <li>Current audit log file</li> <li>Newest history audit log file</li> <li>Oldest history audit log file</li> <li>All history audit log files</li> </ul>
	These audit log files list the selected NDS object audit events that occur during an audit.
	Audit administrators configure the NDS objects using the ActiveAdmin features in bv-Control for NDS eDirectory. Typically, auditing is enabled for a container or volume; then, specific audit events are enabled. Once the audit is enabled, audit events are recorded in the current log file. bv-Control for NDS eDirectory provides reporting for container auditing only.
	Each container being audited has its own set of audit files. Each set of files is kept in an audit file archive. These archives are administered by the audit administrator.
	<b>Note:</b> Not all audit events that are visible in the Auditing dialog are available for Auditing in mixed environments.
	<b>Warning:</b> Auditing in NetWare has changed with the release of NetWare 6.0 or later. This new version of NetWare now uses NAAS, and no longer uses the same API calls as Auditcon. The bv-Control for NetWare product uses API calls that are supported in NetWare versions 4.x and 5.x, but if there is an attempt to configure NetWare 6.0 or later with these API calls, adverse results may occur. Therefore, it is strongly advised that NDS auditing not be enabled through bv-Control for NDS eDirectory environments where NetWare 6.0 holds replicas of the partitions being audited, and

volume auditing not be configured on NetWare 6.5 servers through bv-Control for NDS eDirectory.

User Management	The bv-Control for NDS eDirectory product includes features which allow you to manage the users on your NDS network.
<i>Novell Application Launcher Support</i>	bv-Control for NDS eDirectory supports managing and reporting on Novell Application Launcher (NAL) objects. NAL is Novell's method of distributing applications to end users and controlling which applications they are allowed to see and use.
<i>User Template Object Support</i>	bv-Control for NDS eDirectory supports managing and reporting on the "User Template" NDS object type provided on NetWare 4.11 servers. User Templates are used to create new users with certain settings already defined in the template object. NetWare 4.2, 5, and 6 provide for a template object to create new objects with certain pre-defined settings.
GroupWise Analysis	bv-Control for NDS eDirectory supports reporting on some basic aspects of user information for GroupWise $\ensuremath{\mathbb{R}}$ management tool v5.2 and later.
<i>User Attributes in Site Standards</i>	User attributes are incorporated into each Site Standard. User attributes, which include Account Restrictions, Password Restrictions, Groups Belonged To, Security Equivalences, and Login Time Restrictions, are now defined on individual panels in the <b>Site</b> <b>Standard Setup</b> dialog. The fields that check these attributes have corresponding ActiveAdmin editors.
bv-Count for NDS eDirectory	bv-Control for NDS eDirectory includes a utility to count the number of objects in your NDS tree called bv-Count® for NDS® eDirectory <sup>™</sup> .

User Management

## Installation and Setup

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System Requirements	This section describes the hardware and software requirements for using the BindView RMS Console, the Information Server, and bv-Control for NDS eDirectory.
BindView RMS Console and	In order to use the BindView RMS Console, your workstation must meet the following minimum requirements:
Information Server	Console
	<ul> <li>Pentium® II 450 MHz</li> <li>256 MB RAM</li> <li>300 MB of free disk space</li> <li>SVGA monitor that supports 256 colors with the display set to 800 x 600 pixels</li> <li>Microsoft® Windows® 2000 SP3 (server or workstation), Windows XP® Professional SP1, or Windows Server™ 2003 or later</li> <li>Microsoft® Outlook® 2000, Novell® GroupWise® v5.5, Lotus Notes® v5.0 or Lotus Domino (only required for e-mailing export files)</li> <li>Microsoft® Excel (required for Excel (using OLE) export files)</li> <li>Microsoft® Internet Explorer 5.5 SP1 or later</li> <li>Client for Microsoft® Networks</li> </ul>
	If you are also installing a local Information Server, your workstation and enterprise must meet the Information Server system requirements below.
	Information Server
	<ul> <li>Pentium III 800 MHz</li> <li>512 MB RAM</li> <li>500 MB of free disk space (Windows 2000)</li> <li>Microsoft Windows 2000 SP3 (server or workstation), Windows XP Professional SP1, or Windows Server 2003 or later</li> <li>Microsoft SQL Server v7.0 or 2000, or Microsoft SQL Server Desktop Engine (MSDE) v1.0 or 2000</li> <li>Microsoft Internet Explorer v5.5 SP1 or later</li> <li>Microsoft Outlook 2000, Novell GroupWise v5.5, Lotus Notes v5.0 or Lotus Domino (only required for e-mailing export files)</li> <li>Microsoft Excel (required for Excel (using OLE) export files)</li> <li>Client for Microsoft Networks</li> </ul>
bv-Control for NDS eDirectory	<ul> <li>512 MB RAM</li> <li>500 MB of free disk space (Windows 2000)</li> <li>Microsoft Windows 2000 SP3 (server or workstation), Windows XP Professional SP1, or Windows Server 2003 or later</li> <li>Microsoft SQL Server v7.0 or 2000, or Microsoft SQL Server Desktop Engine (MSDE) v1.0 or 2000</li> <li>Microsoft Internet Explorer v5.5 SP1 or later</li> <li>Microsoft Outlook 2000, Novell GroupWise v5.5, Lotus Notes v5.0 or Lotus Domino (only required for e-mailing export files)</li> <li>Microsoft Excel (required for Excel (using OLE) export files)</li> </ul>

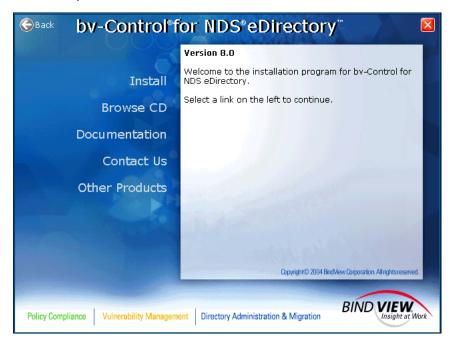
<ul> <li>BindView RMS Console and</li> </ul>	Information	Server v8.00	or later
--	-------------	--------------	----------

- File and Printer sharing for Microsoft Network enabled
- Server Services installed
- Admin Shares enabled

Pre-installation	bv-Control for NDS eDirectory requires a Console and Information Server to function. Before you install bv-Control for NDS eDirectory, you must use the BindView RMS Infrastructure CD to install the Console and Information Server.		
	During the Console installation process, you must choose the Information Server for the Console you are installing. You can choose to install a local Information Server, or you can connect the Console to an existing Information Server. The Information Server you install or connect to is the default Information Server for the Console. Refer to the <i>BindView RMS Console and Information</i> <i>Server User Guide</i> for detailed information on how to install the Console and Information Server.		
	After you install the BindView RMS Console and Information Server, you use the bv-Control for NDS eDirectory CD to install the product on the Console and Information Server machines.		
Installing bv- Control for NDS eDirectory	bv-Control for NDS eDirectory is shipped on a CD. The CD must be available from either a local or remotely mounted CD-ROM drive. If you do not have access to a CD-ROM drive, contact BindView Technical Support for assistance (see "Contacting BindView" on page 20).		
	If you are installing bv-Control for NDS eDirectory for the first time, proceed to the "To install bv-Control for NDS eDirectory" section below.		
	<b>Note:</b> If you are installing bv-Control for NDS eDirectory on a secondary Windows 2000 Domain Controller that has Active Directory® replicated to it, refer to chapter B prior to installing the product.		
	After you have reviewed the product requirements (see page 28), you can use the Install panel to install bv-Control for NDS eDirectory.		
	Before you install the product, BindView recommends that you review the Readme files for the Console and bv-Control for NDS eDirectory. The Documentation menu on the product CD Install panel provides access to the product Readme.		

### ► To install bv-Control for NDS eDirectory

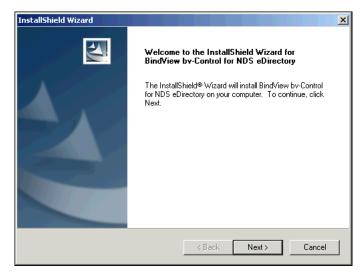
**1** Insert the bv-Control for NDS eDirectory CD into the CD-ROM drive for your machine and click **Install**.



### Fig. 2 Install Panel

If your machine does not have a local or remotely mounted CD-ROM drive, contact BindView Technical Support for assistance (see "Contacting BindView" on page 20).

The **Welcome** panel of the product Setup installation wizard appears.





- 2 Read the information on the panel and click **Next**.
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The **Software License Agreement** panel appears.

InstallShield Wizard	X
License Agreement Please read the following license agreement carefully.	
Press the PAGE DDWN key to see the rest of the agreement.	
CLICK-WRAP LICENSE AGREEMENT (94.3476)  1. LICENSE AGREEMENT CONFIRMATION; RETURN RIGHT.  1.1 This Click-Wrap License Agreement ("Agreement") IS A CONTRACT between BindView Corporation ("BindView" or "us") and the individual or company ("Licensee" or "you") that is installing a BindView software package ("Software"). Certain definitions are set forth in Section 2. Section and subparagraph references are to this Agreement except as otherwise indicated.	
Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install by-Control for NDS eDirectory, you must accept this agreement.	
InstallShield < Back Yes No	

Fig. 4 Software License Agreement Panel

**3** Read the license agreement and click **Yes** to accept the terms of the agreement.

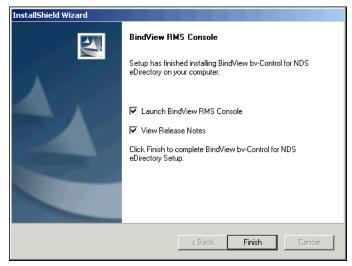
The Start Copying Files panel appears.

InstallShield Wizard	×
Start Copying Files Review settings before copying files.	
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.	
Current Settings:	
Install Product(s): BindView by-Control for NDS eDirectory	
Destination Directory: C:\Program Files\BindView\RMS\	
Program Folder: -2	
Information Server: Connect to the existing server on: AD\ADRIANAW2K	
InstallShield	_
< Back Next > Cancel	

Fig. 5 Start Copying Files Panel

4 Review the information in the Current Settings area and click **Next**.

The BindView product installation screens appear while bv-Control for NDS eDirectory is installed on your machine.



The **Setup Complete** panel appears.

Fig. 6 Setup Complete Panel

If you selected **View Release Notes** on the Setup Complete panel, the Release Notes for the bv-Control for NDS eDirectory appears.

If you selected **Launch BindView RMS Console** on the Setup Complete panel, the BindView RMS Console Configuration Wizard appears.

**5** Select the desired option or options and click **Finish**.

**Configuring the Console** After bv-Control for NDS eDirectory is installed on the Console machine, the BindView RMS Console Configuration Wizard appears. This wizard allows you to perform the minimum configuration required by the Console and Information Server.

You use the BindView RMS Console Configuration Wizard to configure the following items:

- Add/Remove Products
- Add Licenses
- Add Users

**Note:** You can also use the Console features to custom configure the Console and the Information Server you are currently using to meet your specific needs. For detailed information, refer to the *BindView RMS Console and Information Server User Guide*.

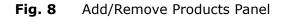
- To add bv-Control for NDS eDirectory using the BindView RMS Console Configuration Wizard
  - 1 When the **BindView RMS Console Configuration Wizard** appears, click **Next** on the Welcome panel.

🗚 BindView RMS Console Configuration Wizard		
	Welcome to the BindView RMS Console Configuration Wizard	
	This wizard will lead you through the necessary steps to configure the BindView RMS Console, which include: • Add/Remove Products • Add Licenses • Add Users	
	To continue, click Next.	
	Do not show this panel again.	
	< Back Next > Cancel Help	

Fig. 7 Welcome Panel of the BindView RMS Console Configuration Wizard

The Add/Remov	e Products	pane	appears.
---------------	------------	------	----------

Add	Add/Remove Products Wizard				
	Add/Remove Products Add a product by selecting the box beside the product name; remove a product by deselecting the box. Click Next to add/remove selected products.				
	Insta	alled Product List		Product Info	[
		bv-Control for NetWare bv-Control for NDS eDirectory	Description Client Version Server Version	NetWare Reporting Tool from BindView 8.0 8.0	
		< Back	Next >	Cancel Help	



2 Check **bv-Control for NDS eDirectory** to add to the BindView RMS Console and click **Next**.

/ersion	Total	Available	
	1		
7	1 100 10000	1 100 10000	
Add Remove Have Disk			
7	Rema dt >	Remove	

### The **Add Licenses** panel appears.

Fig. 9 Add Licenses Panel

Adding Product Licenses In order to use the product, the Console and bv-Control for NDS eDirectory requires licenses to be assigned to the object you want to query. When you add the necessary licenses, the license contains a limited number of unassigned object licenses. These object licenses are automatically assigned when you run a query. The results of the query will only return data for the amount of object licenses that are available. For example, if the license has 100 available user licenses, and the Console gathers information from 25 users when you run your first query, you have 75 user licenses remaining for assignment. If your next query requests information on 85 different users, no information is returned for 10 of the users.

### To add licenses

**3** From the **Add Licenses** panel, click your cursor inside the **Add** text frame and enter the license code. Click the **Add** button.

**Note:** If your license information is stored on a disk, click the **Have Disk** button. The license code you entered populates both the **License Properties** and **Description** fields with the information applicable to the license.

### 4 Click **Next**.

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BindView RMS Console Configuration Wizard - Add Licenses      License Summary      Click each product to view its licenses. Click Next to add the licenses to the BindView Information Server.      Added licenses      Added licenses		
Products  Products  BindView RMS Console  bv-Control for NDS eDire  bv-Control for NetWare	ELicenses	
	< Back Next > Cancel	Help

The License Summary panel appears.

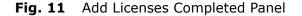
Fig. 10 License Summary Panel

If the Information Server is still missing licenses required for a specific feature, a caution message appears.

**5** Review the license summary information and click **Next**.

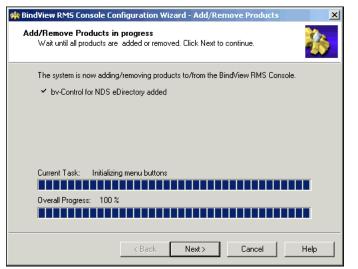
The Add Licenses Completed panel appears.

🗰 BindView RMS Console Configuration Wizard - Add Licenses	×
Add Licenses Completed The following license updates have been successfully stored on the BindView Information Server. Click Next to continue.	
You did not add or remove any licenses.	<u>×</u>
	Y
< Back Next > Cancel	Help



**6** Review the information on the panel and click **Next**.

If the panel contains a caution message for missing licenses, click **Back** to return to the Add Licenses panel and add the missing licenses.



The Add/Remove Products in progress panel appears.



**7** Observe the progress bars and click **Next** after bv-Control for NDS eDirectory is added to the Console.

The Add Users panel appears.

SindView RMS Console Configuration	Wizard - Add Users 🛛 🔀	
Add Users Add users by typing the name in the user list or browse the users; define properties for each user. Multiple selection of users is allowed. Click Next to add.		
ADVADelosse     Enter, or browse for user.      Enter	ser Properties User is BindView Admin Equivalent User can use ActiveAdmin User can create queries User can modify queries User can roadify queries User can roadify task lists User can nodify task lists User can launch programs on server as post process commands Select folder where user can run programs C:\Program Files\BindView\RMS\bin	
< Back	Next > Cancel Help	

Fig. 13 Add Users Panel

### Adding Users

You can add multiple users to the Information Server you just installed or are currently using, and select the properties for each added user.

### To add users

- **1** Add users of the Information Server by typing their fully qualified path in the **Users** frame.
- **2** Assign the desired user properties for each user and click **Next**.
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The **User can use ActiveAdmin** option only appears if an ActiveAdmin license is stored on the Information Server.

Use the **Select folder where user can run programs** option to designate the folder location for the user's Run a Program executable choices. The Run a Program option is a post process command for query and baseline tasks added to a task list. For detailed information on task lists, refer to the *BindView RMS Console and Information Server User Guide*.

dd Users Summary	2
The following users and their properties have been modified and saved in the BindView Information Server. Click Next to continue.	2
You did not add, remove or modify any users.	<b></b>
	~
< Back Next > Cancel	Help

The Add Users Summary panel appears.

**Fig. 14** Add Users Summary Panel

**3** Review the summary information for the added users and click **Next**.

The **Completion** panel for the BindView RMS Console Configuration wizard appears.



Fig. 15 Completion Panel of the BindView RMS Console Configuration Wizard

After you have completed the installation process, the MMC console will appear, as shown in Fig. 16. bv-Control for NDS eDirectory will appear under the BindView RMS container.

🔓 BindYiew - [BindYiew RMS\bv-Control for NDS eDirectory (Not Configured)]				
🛛 📸 <u>C</u> onsole <u>W</u> indow <u>H</u> elp				_ <del>8</del> ×
Action View 👉 🔶 💽 😰 🛱	2   📰 🐮 🐌 😰 🗄	🕅   Þ 🖬 🕅		
Tree	bv-Control for NDS eDire	ctory (Not Configured)		
BindView RMS	Name A	Description		
Risk Assessment and Control     Bindview RMS Configuration     Mamed Scopes     Mamed Scopes     More Control for NDS eDirectory (Not Configured)	SDouble click here	Invokes the configuration wizard	to configure by-Control for NDS	5 eDirectory.
	•			•

Fig. 16 Console Interface

The first time you install bv-Control for NDS eDirectory, you must configure the product before you can use bv-Control for NDS eDirectory. You use the bv-Control for NDS eDirectory Configuration Wizard to configure the product.

From the Console Tree, the bv-Control for NDS eDirectory container is labeled "Not Configured" as shown in Fig. 16. Proceed to "Configuring bv-Control for NDS eDirectory", Next.

Configuring bv- Control for NDS eDirectory	bv-Control for NDS eDirectory must be configured properly before using. You use the bv-Control for NDS eDirectory Configuration Wizard to configure the product with required items.		
	You can also use the bv-Control for NDS eDirectory configuration feature to custom configure to product. Refer to "Setting up bv-Control for NDS eDirectory" on page 43.		
Configuration Wizard	You use the bv-Control for NDS eDirectory Configuration Wizard to configure the product with the following items:		
	Create a Credential Database		
	<ul> <li>Define the bv-Control for NDS eDirectory Settings</li> </ul>		
►	To configure bv-Control for NDS eDirectory using the bv-Control for NDS eDirectory Configuration Wizard		
	<ol> <li>From the Console Tree, select the bv-Control for NDS eDirectory container.</li> </ol>		
	2 In the Details Pane, double-click <b>Configuration Wizard</b> .		
	<b>Note:</b> You can also access the bv-Control for NDS eDirectory Configuration Wizard from the bv-Control for NDS eDirectory container shortcut menu.		
	<ul> <li>When the bv-Control for NDS eDirectory Configuration</li> <li>Wizard appears, click Next on the Welcome Panel.</li> </ul>		
	by-Control for NDS eDirectory Configuration Wizard		
	Welcome to the by-Control for NDS eDirectory Configuration Wizard		
	This wizard helps you through the steps to configure the by-Control for NDS eDirectory, which include:		

Fig. 17 Welcome Panel of the bv-Control for NDS eDirectory Configuration Wizard

Cancel

Help

To continue, click Next.

Next >

< Back

Add Credential Databases; Set Credential Link if by-Control for NetWare is installed;

BindView RMS Console Setup Configuration Wizard - Add C	redentials 🗾 🕨
Add Credential Databases Add credential databases to the Information Server. Click or database's password. Click Next to continue.	Modify to change the
Credential Databases	
Database Name Click and edit here to add new credential database	<u></u>
	<b>y</b>
< Back Next >	Cancel Help

## The Add Credential Databases panel appears.

Fig. 18 Add Credential Databases Panel

**Credential Database** The BindView RMS Console Job Processor is running as a local system account. Because the Job Processor is running locally, it has no network credentials. In order to collect information from the resource objects you are querying, the Information Server must have rights to those objects. A credential database provides the Information Server with the necessary credentials to authenticate the user of those resources. The Console uses the credential data so that the Information Server can logon to the resources during query processing and obtain information it needs to generate the results. Once a credential database is created, you must add the credential database to the user's account. Credential The credentials specified in the credential database must meet the Requirements minimum requirements specified in "System Requirements" on page 28. **Note:** When a resource credential information is modified, any credential database holding that credential data will need to be updated to reflect the new values. To configure the Console with the credential databases, you must perform the following tasks: Create a credential database Add a database

- Add credentials to the credential database
- Assign a credential database to a user
- Set Credential Link

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## • To create a credential database

1 From the Add Credential Databases panel, enter the name of the new credential database you want to create and click **Next**.

The Create New Database dialog appears.

Create New Data	base	×
Database Name:	1969	OK
Password:	xx	Cancel
Verify Password:	××	



- **2** Assign and verify a password for the credential database.
- 3 Click OK.

Bind∀ie	w RMS Console Setup Configuration Wizard - Add Credentials	×
Ado	I Credential Databases Add credential databases to the Information Server. Click on Modify to change the database's password. Click Next to continue.	<b>U</b> ł
	Credential Databases	
	Database Name	<u> </u>
	Click and edit here to add new credential database	-
		<b>V</b>
	< Back Next > Cancel	Help
		TOP

Fig. 20 Add Credential Database Panel

The credential database you created appears on the Add Credential Databases panel. After you create a credential database, you must add resource object credentials to it.

4 Click Next.

BindView RMS Console Setup Configuration	n Wizard - Add Credentials	×
Select Credentials Select the credential databases for each credential databases. Click Next to contin		<b>T</b>
Products by-Control for NDS eDirectory	Credential Database 1969	<b>•</b>
Resource Objects	Credentials	
<ul> <li>Specify Unlisted Tree</li> <li>Novell Directory Services</li> </ul>	>>> <	
< Back	Next > Cancel	Help

The Select Credentials panel appears.



**5** From the **Resource objects** box, double-click the tree you want to add credentials to.

The Additional Settings-Tree Credentials dialog appears.

Additional Settings	×
Tree Credentials	
Context:	
OK Cancel	Help

Fig. 22 Tree Credentials dialog

**6** Enter the Context for the tree, as well as a User Name, Password, and Server Name combination which is valid for that context.

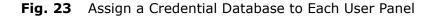
**Note:** When you type the context, remember that unless you're specifying an unlisted tree, you only need to enter the context within the tree.

- 7 Click OK.
- 8 From the Select Credentials panel, click **Next**.

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The Assign a Credential Database to Each User panel appears.

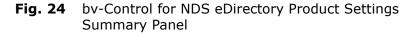
BindView RMS Console Setu	p Configuration Wiza	ard - Add Credentials	×
Assign a Credential Database to Each User Assign one database to each user. Select multiple row in the credential database column to assign the same database to multiple users.			
User-Credential Databas	e		
User Name		Credential Database	
🕵 AD VAD elossa		1969	•
,			
	< Back	Next > Cancel	Help



9 Assign a credential database to a user and click **Next**.

The bv-Control for NDS eDirectory Product Settings **Summary** panel appears.

by-Control for NDS eDirectory Configuration Wizard	×
bv-Control for NDS eDirectory Product Settings Summary Here are the configuration settings of bv-Control for NDS eDirectory. Click Next to save the settings.	
Credential Database: Configured	4
 Kenter Stack Finish Cancel	Help

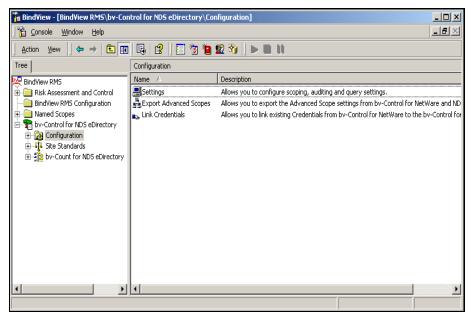


**10** Review the summary information for the bv-Control for NDS eDirectory configuration and click **Finish** to close the wizard.

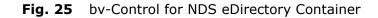
Setting up bv-Control for NDS eDirectory

In addition to configuring the RMS Console for bv-Control for NDS eDirectory with the configuration wizard, you can also manually configure by-Control for NDS eDirectory. The by-Control for NDS

	eDirectory product allows you to manually configure the settings for default scopes, adding one or more advanced scopes, linking existing configured credentials, controlling some of the syntax of queries and the ways that the Information Server processes queries, and controlling how Auditing queries are processed.
►	To manually configure bv-Control for NDS eDirectory
	1 From the details pane of the BindView RMS Console, click <b>Configuration</b> to configure the settings for bv-Control for NDS eDirectory.
	The <b>Settings, Export Advanced Scopes, and Link Credentials</b> containers display.
Setting Up Default Scopes and Advanced Scopes	The BindView RMS Console Query Builder requires you to specify a <i>scope</i> which is searched for items that match the query you create. The bv-Control for NDS eDirectory Settings allow you to set a specific default scope more specific than that allowed by the user's credentials and to create advanced scopes which can be used when creating queries.
	Before you begin using bv-Control for NDS eDirectory, you may wish to set up a default scope. In addition, you may wish to set up one or more advanced scopes to make it easier to view groups of resources as a unit. For more information on using scopes, please see Chapter 4, "Scoping," on page 115.
	If you do not create a default scope, queries will check every object which can be accessed using the credential database associated with the current user. When you create a default scope, you ensure that only relevant objects will be queried. Generally, you should limit the scope of queries to only those trees, containers, or group objects you know are significant to the query.
	Setting a default scope allows you to do away with the need to set up an individualized scope for ad hoc queries. In addition, it allows you to create items such as the pre-defined queries that BindView includes with bv-Control for NDS eDirectory. These queries use the console's individual default scope instead of requiring scopes to be set and reset by every user.
►	To create a default scope
	1 Display the contents of the <b>bv-Control for NDS eDirectory</b> container and double-click the <b>Configuration</b> object.



**2** Double-click the **Settings** object in the details pane (Fig. 25).



The **Settings** dialog appears (Fig. 26).

Settings
Scope Query Auditing LDAP for eDirectory Checking Configuration
Default Scope Builder
⊢ Advanced Scope List
Add Modify Delete Copy
Import from File Export to File
OK Cancel Help



3 Click **Default Scope Builder** to create a default scope.

Default Scope Builder	×
Tree Container Object	
Include	Exclude
Add Delete Modify	Add Delete Modify
	OK Cancel Help

The Default Scope Builder dialog appears.

Fig. 27 Default Scope Builder Dialog

The Default Scope Builder dialog allows you to specify which items should be included in or excluded from the default scope that you are creating.

A default scope can be as simple or as complex as you choose. A scope can have a single term, or you can choose to include multiple items from a single class, or it can be compound—that is, you can include an item, but exclude another while including a third, a fourth, a fifth, and so on. You can include or exclude items of different classes in the same scope.

In addition, default scopes support wildcards. You can specify items that include the \* and ? wildcards. The \* wildcard matches any number of characters. The ? wildcard matches a single missing character. Thus, an entry of "a\*" will match all values beginning with "a," while "a?" will match all two-character values beginning with "a."

- **4** To add an item to an Include or Exclude list, choose the tab for that category item from the top of the dialog. There are tabs indicating Tree, Container, and Object.
- **5** Click **Add** in the **Include** or **Exclude** areas to add an item to include or exclude.

The Add dialog appears.

Add		×
<u>0</u> K	<u>C</u> ancel	<u>H</u> elp

Fig. 28 Add Dialog

**6** Type the identifying information for the item you wish to add to the Include or Exclude list in the field and click **OK** to save the changes you've made.

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**Note:** If you're not sure about the identifying information for the item, click the browse justice button to the right of the field.

¥alue Helper	×
Available Item(s)	
⊕ ♣ All Trees in Credentials D	latabase
	Add
	Remove
Configure Dyr Selected Item	namic Indexing
OK	Cancel Help

The Value Helper dialog appears.

Fig. 29 Value Helper Dialog

The Value Helper dialog only displays items that the current user's credentials allow access to. You can use the Value Helper dialog to navigate through the resource objects available to select an object to add to the Include or Exclude list.

- 7 When you've located the item you wish to add to the list, double-click it or click it and click Add, and it will appear in the Selected Item area at the lower end of the dialog. You can only add items that are appropriate to the currently selected tab in the Default Scope Builder dialog.
- 8 When you've selected the correct item, click **OK** to close the dialog. The **Add** dialog reappears with the item you selected in the field.
- 9 Click OK to close the dialog and save the changes you've made. The item is added to the Include or Exclude field on the tab you chose in the Default Scope Builder dialog.
- **10** Click **OK** to close the **Default Scope Builder** dialog and save the default scope you've created.

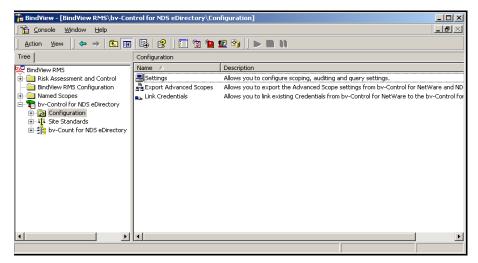
You can add as many items as you wish to the Include or Exclude lists for each tab of the Default Scope Builder dialog.

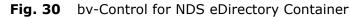
#### Setting Up Advanced Scopes

Advanced Scopes are named collections of scope information that you can create before they are needed and then use later in queries. In addition, Advanced Scopes can be complex, with multiple items included or excluded, just like Default Scopes. The Simple Scopes that you create while creating a query cannot be as complex as an Advanced Scope, nor can they exclude items from Simple Scopes.

## To create an Advanced Scope

1 Display the contents of the **Configuration** object in the **bv**-**Control for NDS eDirectory** container and double-click the **Settings** object in the details pane (Fig. 30).





The Settings	dialog	appears.
--------------	--------	----------

Settings	×
Scope Query Auditing LDAP for eDirectory Checking Configuration	
Default Scope Builder	
Advanced Scope List	
Add Modify Delete Copy	
Import from File Export to File	
OK Cancel Help	



2 Click Add to create an Advanced Scope.

The Advanced Scope Name dialog appears (Fig. 32).

Advan	ced Scope Name		×
ļ			
	OK	Cancel	

Fig. 32 Advanced Scope Name Dialog

**3** Type a name for the new scope and click **OK** to create the new scope.

Advanced Scope Builder Tree Container Object	X
- Include	Exclude
Add Delete Modify	Add Delete Modify
<u> </u>	OK Cancel Help

The Advanced Scope Builder dialog appears.

Fig. 33 Advanced Scope Builder Dialog

The **Advanced Scope Builder** dialog allows you to specify which items should be included in or excluded from the Advanced Scope that you are creating.

An Advanced Scope can be as simple or as complex as you choose. It can also be compound—that is, you can include this item, but exclude that one while including a third, a fourth, a fifth, and so on. You can include or exclude items of different classes in the same scope.

- **4** To add an item to an include or exclude list, choose the tab for that category item from the top of the dialog. There are tabs indicating Tree, Container, and Object.
- **5** Click **Add** in the **Include** or **Exclude** areas to add an item to include or exclude.

The **Add** dialog appears.

Add		×
OK	Cancel	Help

Fig. 34 Add Dialog

**6** Type the identifying information for the item you want to add to the Include or Exclude list in the field and click **OK** to save the changes you've made.

**Note:** If you're not sure about the identifying information for the item, click the browse jub button to the right of the field.

Value Helper		X
Available Item(s)		
	s in Credentials Database	
		Add
		Remove
	Configure Dynamic Indexing	
Selected Item		
	OK Cancel	Help

## The Value Helper dialog appears.

**Fig. 35** Value Helper Dialog

The Value Helper dialog only displays items that the current user's credentials allow access to. You can use the Value Helper dialog to navigate through the resource objects available to select an item to add to the include or exclude list.

- 7 When you've located the item you want to add to the list, double-click it or click it and click Add, and it will appear in the Selected Item area at the lower end of the dialog.
- 8 When you've selected the correct item, click **OK** to close the dialog. The **Add** dialog reappears with the item you selected in the field.
- **9** Click **OK** to close the dialog and save the changes you made. The item is added to the Include or Exclude field on the tab you chose in the **Advanced Scope Builder** dialog.
- **10** Click **OK** to close the **Advanced Scope Builder** dialog and save the new Advanced Scope you created. The new Advanced Scope is ready to use in queries.

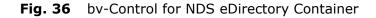
You can add as many items as you choose to the Include or Exclude lists for each tab of the **Advanced Scope Builder** dialog.

Modifying or Deleting<br/>an Advanced ScopeThe Scope tab of the Settings dialog allows you to modify or delete<br/>the advanced scopes you created.

## To modify an Advanced Scope

1 Display the contents of the **Configuration** object of the **bv**-**Control for NDS eDirectory** container and double-click the **Settings** object in the details pane (Fig. 36).

📲 BindView - [BindView RMS\bv-Control for NDS eDirectory\Configuration]			
Action View			
Tree	Configuration		
		(- · · ·	
😤 BindView RMS	Name A	Description	
🗄 🧰 Risk Assessment and Control	Settings	Allows you to configure scoping, auditing and query settings.	
	Export Advanced Scopes	Allows you to export the Advanced Scope settings from bv-Control for Net	
🗄 🧕 Named Scopes	👞 Link Credentials	Allows you to link existing Credentials from bv-Control for NetWare to the b	ov-Control for
E The by-Control for NDS eDirectory			
⊕ ∰ bv-Count for NDS eDirectory			
1			
			Þ



The **Settings** dialog appears.

Settings	×
Scope Query Auditing LDAP for eDirectory Checking Configuration	
	1
Default Scope Builder	
Advanced Scope List	
Add Modify Delete Copy	
Import from File Export to File	
OK Cancel Help	

Fig. 37 Settings Dialog

2 Select the scope you wish to modify and click Modify.

Advanced Scope Builder Tree Container Object	×
Include	Exclude
Add Delete Modify	Add Delete Modify
	OK Cancel Help

The Advanced Scope Builder dialog appears.

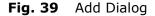
Fig. 38 Advanced Scope Builder Dialog

The tabs in the **Advanced Scope Builder** dialog will be populated with the entries which already exist in the scope.

**3** To add another item to the scope's Include or Exclude lists, choose the appropriate tab from the top of the dialog and click **Add** in the **Include** or **Exclude** areas to add an item to include or exclude.

The <b>Add</b>	dialog	appears.
----------------	--------	----------

Add		X
OK	Cancel	Help



**4** Type the identifying information for the item you wish to add to the Include or Exclude list in the field and click **OK** to save the changes you've made.

**Note:** If you're not sure about the identifying information for the item, click the browse \_\_\_\_\_ button to the right of the field.

Value Helper Available Items I I I I I Trees	Add Remove
	Selected Item
<u>D</u> K <u>C</u> ancel <u>H</u> elp	

The Value Helper dialog appears.

Fig. 40 Value Helper Dialog

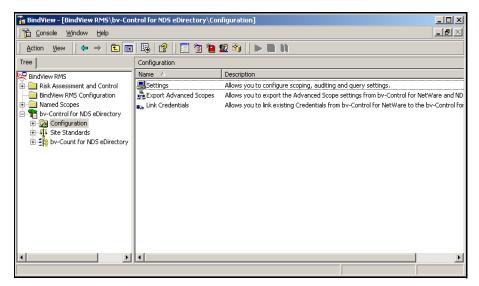
The Value Helper dialog only displays items that the current user's credentials allow access to. The user can use the Value Helper dialog to navigate through the resource objects available to select an item to add to the Include or Exclude list.

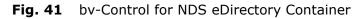
- 5 When you've located the item you wish to add to the list, double-click it or click it and click Add, and it will appear in the Selected Item area at the lower end of the dialog. You can only add items that are appropriate to the currently selected tab in the Advanced Scope Builder dialog.
- **6** When you've selected the correct item, click **OK** to close the dialog. The **Add** dialog reappears with the item you selected in the field.
- 7 Click OK to close the dialog and save the changes you made. The item is added to the Include or Exclude field on the tab you chose in the Advanced Scope Builder dialog.
- 8 To delete an item already included in the Advanced Scope, select it and click **Delete**.
- **9** To modify an existing term, select it and click **Modify**. The **Modify** dialog appears, which allows you to make changes to the selected term.
- **10** Click **OK** to close the **Advanced Scope Builder** dialog and save the new Advanced Scope you've created. The new Advanced Scope is ready to use in queries.

You can add as many items as you choose to the Include or Exclude lists for each tab of the **Advanced Scope Builder** dialog.

## To delete an Advanced Scope

1 Display the contents of the **Configuration** object in the **bv**-**Control for NDS eDirectory** container and double-click the **Settings** object in the details pane (Fig. 41).





The **Settings** dialog appears.

Settings	X
Scope Query Auditing LDAP for eDirectory Checking Configuration	
Default Scope Builder	
Advanced Scope List	
Add Modify Delete Copy	
Import from File Export to File	
OK Cancel Help	

Fig. 42 Settings Dialog

**2** Select the scope you wish to delete and click **Delete**. The Advanced Scope is deleted.

Exporting Advanced Scopes You can use bv-Control for NDS eDirectory to export advanced scopes from the bv-Control for NetWare and NDS product. If you

<sup>54</sup> bv-Control for NDS eDirectory User Guide

created advanced scopes prior to updrading to bv-Control for NDS eDirectory, those advanced scopes will automatically appear in the Export Advanced Scope dialog.

## To export Advanced Scopes

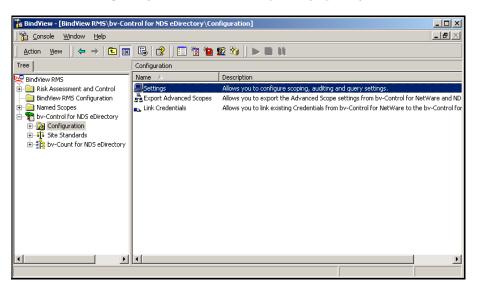
- **1** Select the Advanced Scope you want to export.
- 2 Click the Export Settings button. Your advanced scope settings will be exported to either the bv-Control for NDS eDirectory or bv-Control for NetWare product.

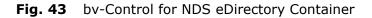
#### Setting Query Preferences

You can use the **Query** tab of the **Settings** dialog to configure the order and syntax of NDS names recognized by bv-Control for NDS eDirectory. In addition, you can configure how bv-Control for NDS eDirectory calculates free disk space, how it processes password tests, and other attributes.

## To change Query Preferences

1 Display the contents of the **Configuration** object in the **bv**-**Control for NDS eDirectory** container and then double-click the **Settings** object in the details pane (Fig. 43).





ettin		2
Sco	Pe Query Auditing LDAP for eDirectory Checking Config	uration
	Default Scope Builder	
-		
	Advanced Scope List	-
	Add Modify Delete Copy	
	Import from File Export to File	
	OK Cancel	Help
	UK Cancer	neip

## The **Settings** dialog appears.



**2** Select the Query tab from the top of the dialog.

The **Query** tab appears.

Settings	×
Scope Query Auditing LDAP for eDirectory Checking Configuration	
	1
Directory Services Name	
Typeless Example Name:	
Abbreviate SLI.DEVELOPMENT.BV	
Transpose	
High Speed Password Analysis Advanced Settings Using BVSIM4.NLM	
Use Fast Disk Space APIs	
- Home Directory	
Delete Home Directory?	
Delete ONLY If Home Directory Path Ends With User LOGIN ID	
Delete Files and Directories Forcibly	
Root Of Tree For Determining Reported Values	
[Root]	
OK Cancel Help	

Fig. 45 Settings Dialog — Query Tab

The Query tab allows you to make changes to the way your query is processed by the Information Server and to make changes to the way retrieved information is returned. Table 1, "Query Tab Options" describes the options available.

- **3** When you've made the desired changes to the Query settings, click **OK** to close the dialog and save the changes.
- 56 bv-Control for NDS eDirectory User Guide

Option	Description
Directory Services Name	The Directory Services Name options allow you to control how object distinguished names are displayed by bv-Control for NDS eDirectory.
Typeless	When this option is selected, object type designations will be omitted from all object distinguished names.
Abbreviate	When this option is selected, all object distinguished names will be displayed relative to a user's current context.
Transpose	When this option is selected, the order of objects in object-distinguished names will be reversed.
High Speed Password Analysis Using BVSIM4.NLM	When this option is checked, password checking uses the optional BVSIM4.NLM to speed password checking from one password every three seconds to 200-300 password checks per second.
Use Fast Disk Space APIs	When selected, bv-Control for NDS eDirectory will use information NetWare stores about disk space used on the disk. This calculation is very close to the actual size of files—the margin of error is 3.5 kilobytes per volume of the exact amount—but cannot be used on structures smaller than a volume (directories and paths). When this is not selected, bv-Control for NDS eDirectory will total the size of the files in the scope of the query itself. This option is slower, but slightly more accurate. bv-Control for NDS eDirectory will also use this method automatically when it cannot use the Fast Disk Space APIs.
Dynamically update dirty connections	When this option is selected, bv- Control for NDS eDirectory attempts to connect to the tree during the query process.

Table 1	Query	/ Tab	Options	(Part 1 of 2)
	2		••••••••	()

Option	Description
Delete Home Directory?	When selected, the current user's home directory will be deleted when the user object is deleted from NDS. A second optional checkbox can be enabled to ONLY delete the current user's home directory path when the path ends with the user's login ID. A third optional checkbox can be enabled to delete files and directories forcibly regardless of their attributes.
Root of Tree for Determining Reported Values	bv-Control for NDS eDirectory uses the value in this field to restrict data collection in <i>secondary queries</i> (i.e., queries which are implied by other fields, such as Rights to fields) to a part of your NDS tree. When you enter a context in the field or use the value helper to select a context, bv-Control for NDS eDirectory treats that context as if it were the root of the tree when performing these secondary queries. This option helps with performance tuning on large, complex trees when you are performing these secondary queries. When you create a query, bv- Control for NDS eDirectory will <i>always</i> use the scope you specify in the query. Normally, you should leave this item set to [Root].

Table 1 Query Tab Options (Part 2 of 2)

## Setting Auditing Preferences

The **Auditing** tab allows you to specify which type of audit log file should be used to report from. You can choose one of four sources for audits. You can report from:

- Current Audit Log File
- Newest History Audit Log File
- Oldest History Log File
- All History Audit Log Files

## • To set Auditing Preferences

1 Display the contents of the **Configuration** object in the **bv**-**Control for NDS eDirectory** container and double-click the **Settings** object in the details pane (Fig. 46).

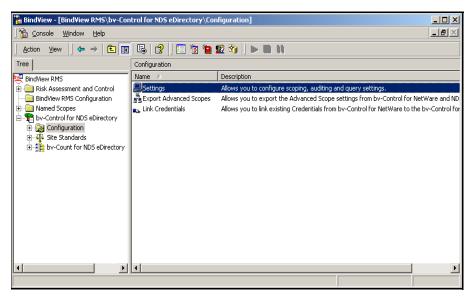


Fig. 46 bv-Control for NDS eDirectory Container

ettings Scope Query Auditing	LDAP for eDirector	y Checking Conl	iguration
Default Scope Builde	er		
Advanced Scope List			_
Add	odify Del	iete Co	
Import from		ort to File	P9
	OK	Cancel	Help

### The **Settings** dialog appears.



**2** Select the **Auditing** tab from the top of the dialog.

Settings	×І
Scope Query Auditing LDAP for eDirectory Checking Configuration	
	П
- Audit Log File Type	
Report From Current Audit Log File	
C Report From Newest History Audit Log File	
C Report From Oldest History Audit Log File	
C Report From All History Audit Log Files	
OK Cancel Help	



- **3** Select the source you prefer to use for the Audit Log File.
- 4 Click **OK** to close the dialog and save your changes.

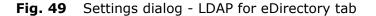
LDAP for eDirectory Tab preferences

The LDAP for eDirectory tab allows you to connect to eDirectory with LDAP.

1 Display the contents of the **Configuration** object in the **bv**-**Control for NDS eDirectory** container and double-click the **Settings** object in the details pane.

The **Settings** dialog appears.

Settings	×		
Scope Query Auditing LDAP for eDirectory Checking Configuration	1		
Connect to eDirectory with LDAP © SSL Connection (Recommended)			
C Non-SSL Connection			
O Anonymous Bind			
Description			
SSL: eDirectory user binds are more secure on LDAP servers that are configured to use SSL since a secure connection is maintained between the SSL-enabled servers and clients across the Internet.			
Non-SSL: The eDirectory password is transmitted as clear text between the LDAP client and the LDAP Services for eDirectory.			
Anonymous: This connection does not contain a user name or password. When the LDAP client binds to the LDAP Services for eDirectory and the service is not configured to use a Proxy User, the user is authenticated to eDirectory as User [Public].			
OK Cancel Help			
	-		



- 2 Click on the LDAP for eDirectory tab.
- **3** Choose from one of the three connection types:
  - SSL Connection (Recommended)
  - Non-SSL Connection
  - Anonymous Bind

A complete description of each option is shown on the tab.

**4** Once you have made your selection, click OK to close the dialog.

Configuring Servers for Fast Password Analysis	bv-Control for NDS eDirectory can access most of the fields it queries without using the NLM files. There are, however, certain operations—notably password analysis—which are greatly sped up by two NLM "helpers," BVSIM4.NLM and NDSPW.NLM, which run on NetWare 4, 5, and 6 servers. For NetWare 4, 5, and 6 if used, the NLM files must be copied to one of the server's partitions and loaded in the server's memory.
	When the NLM files are installed, the speed of password checking increases from one password check every three seconds to 500 – 800 password checks per second. Without the BVSIM4.NLM and NDSPW.NLM, password analysis in real time is virtually impossible. If you intend to perform any password analysis, you should install the NLM files.
	The NDSPW.NLM is automatically loaded by the BVSIM4.NLM when the BVSIM4.NLM loads.
Where to Install the BVSIM4 and NDSPW.NLMs	In NetWare 4, 5, and 6, the network is represented by a database containing the NDS tree. The NDS tree provides the logical view of a NetWare 4, 5, or 6 network. When the NDS tree is defined, the NDS is partitioned into separate subtrees. Each partition is stored on a NetWare 4, 5, or 6 server. A NetWare 4, 5, or 6 server can contain only one partition.
	To increase the reliability of NetWare 4, 5, and 6 networks, each partition can be replicated and each replica is stored on its own server. A partition's replicas are known as a <i>replica ring</i> .
	The BVSIM4 and NDSPW.NLM files, if used, must be installed on at least one server in a given partition. These NLM files must be installed on a read/write or master replica of each partition you intend to report on.

		NDS Tree
		Root         Server 1         Server 2         Partition A         Partition B         Partition A         Partition B         Correct Installation         NLM files installed on a Single Server
Loading BVSIM4 and NDSPW.NLM files	file: pac the One ser You	ause they are updated so often, the BVSIM4 and NDSPW.NLM s are not included in your bv-Control for NDS eDirectory kage. In order to install them you need to download them from BindView Web site: <b>http://www.bindview.com</b> . ce you have downloaded the files, you can install them on your ver(s). can use the NetWare RCONSOLE or RCONJ utility to load the
		SIM4 and NDSPW NLM files, or you can go to the server to load files.
•		load the BVSIM4 and NDSPW.NLM files using ONSOLE or RCONJ
	1	Copy the BVSIM4.NLM and NDSPW.NLM files from the directory where you downloaded them to the SYS:SYSTEM directory of one of the servers that contains one replica in the set of replicas.
	2	Use RCONSOLE or RCONJ to connect to the server's console prompt, or if you'd prefer not to use RCONSOLE, go to the server's console.
	3	At the server prompt, type load BVSIM4 and press Enter.
	4	The BVSIM4.NLM is loaded into the server's memory. The NDSPW.NLM is automatically loaded when the BVSIM4.NLM loads.
	5	If you intend to load the BVSIM4 and NDSPW.NLM files on the server permanently, edit the server's AUTOEXEC.NCF file, adding the line load bysim4.
		2: Installation and Setup 63

6 Repeat steps 1-4 for each set of replicas that will be analyzed	6	Repeat steps 1-	4 for each set	of replicas that v	will be analyzed.
---	---	-----------------	----------------	--------------------	-------------------

High-Speed Password Security Analysis	Under Novell's NetWare, user passwords are encrypted for security purposes. It is, however, in the security administrator's interest to ensure that certain words are NOT being used as passwords. The bv-Control for NDS eDirectory can provide this sense of security. The physical execution of this detection can be done in two methods: slow client-only analysis and fast client-server analysis.
	The client-only method is performed by default and requires a minimum of three seconds for each password check tried for each user.
	To use the Hacker's Dictionary supplied with this NLM, make a Grid style report and add the field "Password in File." Copy the password file you'd like to use to some directory on your server. When asked to specify the file, use the file and directory browser to locate and specify the file you've copied to the server. A number of files are included in the \Program Files\BindView\Control\Novell\Password Files directory. If you wish to use any other ASCII text list of possible passwords instead, simply copy that file to your server and specify it instead of one of the existing BindView-created files.
Partition and Server Information	When you want to perform High Speed Password Analysis, you need to also specify the server where the BVSIM4.NLM is loaded for the fast cracking method. This is done by the clicking the Advanced Settings button on the Query tab.
	<b>Note:</b> This button is only enabled once you enable the High Speed Password Analysis using BVSIM4.NLM option of the Query tab.
►	<ul> <li>To specify a partition/server</li> <li>1 From the Query tab, enable the High Speed Password</li> </ul>
	Analysis using BVSIM4.NLM option.
	2 Click the <b>Advanced Settings</b> button.

The **Specify Server** dialog appears.

Settings
Scope Query Auditing LDAP for eDirectory Checking Configuration
Specify Server
Partition And Server Information
Partition\Server :
Enter the Partition and Server name as per the format: <partition>\<server> eq: BINDVIEW.DEV\MAC6</server></partition>
Partition-Server List
bbA
Remove
Edit
OK Cancel Help
OK Cancel Help

Fig. 50 Specify Server dialog

- **3** Enter the Partition and Server name in the following format: <Partition>\<Server> (e.g., BINDVIEW.DEV/MAC6).
- 4 Click the **Add** button to add the Partition and Server to the Partition-Server List.
- **5** Click **OK** to save your settings and exit the dialog.

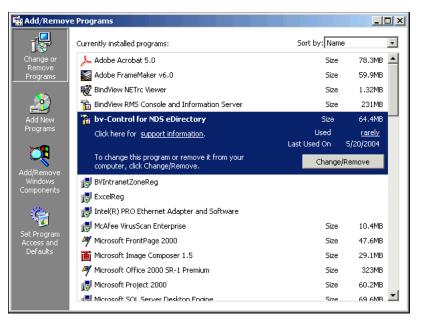
Upgrading from the BindView RMS Console	Prior to upgrading the previous BindView RMS Console version to the current Console, BindView recommends that you read and follow the steps described in the <i>BindView RMS Console and Information Server Upgrade Guide</i> .			
	<b>Note:</b> If you have multiple products added to the previous Console, you must upgrade all of them at the same time.			
Removing bv- Control for NDS eDirectory	<ul><li>Removing bv-Control for NDS eDirectory consists of the following:</li><li>Uninstalling bv-Control for NDS eDirectory or</li></ul>			
	<ul> <li>Removing bv-Control for NDS eDirectory from the Console</li> </ul>			
Uninstalling the Product	You can uninstall bv-Control for NDS eDirectory from your machine by using the recommended process of removing programs through the <b>Add/Remove Programs</b> dialog.			
►	To uninstall bv-Control for NDS eDirectory			
	<b>1</b> Close all applications running under Windows.			
	2 Click <b>Start</b> from the task bar.			
	3 Select Settings, and click Control Panel.			

# 4 From the **Control Panel**, double-click **Add/Remove Programs**.

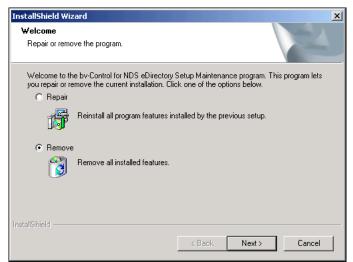
Address 🐼 Control Panel	ີ X ເກ ⊞+ ▼ ແລະ Comment	Go
Address Control Panel	ି <i>ବ</i>	'Go
Name 🛆		'Go
	Comment	
A A CONTRACT OF MANY AND A CONTRACT AND A CONTR		
Accessibility Options	Customizes accessi	
Add/Remove Hardware	Installs, removes, a	
Add/Remove Programs	Installs and remove	
Administrative Tools	Configures administ	
Date/Time	Sets the date, time,	
Display	Customizes your de	
Folder Options	Customizes the disp	
Fonts	Displays and manag	
Game Controllers	Adds, removes, an	
Internet Options	Configures your Int	
📸 Keyboard	Customizes your ke	
9 Mail	Microsoft Outlook P	
Mouse	Customizes your mo	
Network and Dial-up Connections	Connects to other c	
Phone and Modem Options	Configures your tel	
Power Options	Configures energy	
Printers	Adds, removes, an	
Regional Options	Customizes settings	
Scanners and Cameras	Configures installed	
Scheduled Tasks	Schedules computer	
🗄 Sounds and Multimedia	Assigns sounds to e	
System	Provides system inf	
Users and Passwords	Manages users and	



**5** From the **Add/Remove Programs** dialog, highlight bv-Control for NDS eDirectory, and click **Change/Remove**.







The InstallShield Wizard Welcome panel appears.

Fig. 53 InstallShield Wizard - Welcome panel

6 Select the **Remove** option and click **Next** to continue.

The Confirm Uninstall message appears.

Confirm Uninstall	<
Do you want to completely remove the selected application and all of its features?	
OK Cancel	

7 Click **OK** to confirm that you want to uninstall.

The **Setup Status** panel appears.

InstallShield Wizard	×
Setup Status	
bv-Control for NDS eDirectory Setup is performing the requested operations.	
InstallShield	Cancel

Fig. 54 Setup Status panel

After the uninstall process is finished, the **Maintenance Complete** panel appears.



Fig. 55 Maintenance Complete panel

8 Click Finish.

**Removing the Product** You can remove bv-Control for NDS eDirectory from the Console by using the Add/Remove Product wizard.

## To remove bv-Control for NDS eDirectory from the Console

1 From the console tree, right-click on the BindView RMS container to display the shortcut menu. The **Add/Remove Products** wizard panel appears.

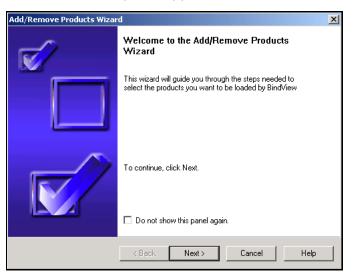


Fig. 56 Add/Remove Product Wizard Panel

- 2 Click **Next** to proceed with the uninstall process.
- **3** Select the **Add/Remove Product** command.

Add/Remove Products Wizard			×
Add/Remove Products Add a product by selecting deselecting the box. Click N	the box bes lext to add/	ide the product name; remove a product by remove selected products.	
Installed product list			_
Name		Description	
✓ bv-Control for NDS eDi	rectory	NDS eDirectory Product	
	< Back	Next > Cancel	Help

The **Add/Remove Products** wizard panel appears.

- Fig. 57 Add/Remove Products Panel
- 4 Click Next.

The next **Add/Remove Products in progress** panel appears.

Add/Remove Products Wizard	×
Add/Remove Products in progress Wait until all products are added or removed. Click Next to continue.	
You did not change anything compared to the current configuration.	
< Back Next > Cancel	Help



5 Uncheck **bv-Control for NDS eDirectory** and click **Next**.

Add/Remove Products Wizar	rd	×
	Completing the Add/Remove Products Wizard	
	You have successfully completed the Add/Remove Products Wizard.	
	To close this wizard, click Finish.	
	< Back Finish Cancel Help	

The **Add/Remove Products** wizard panel reappears.

Fig. 59 Add/Remove Products Wizard Completion Panel

6 Click **Finish** to complete the removal process.

Removing the Product

# **Using Query-Related Features**

# In This Chapter

3

er	Understanding Queries	74
	Creating a Query	
	Running Queries	
	Dialog Book	
	Using ActiveAdmin	
	Baselining	
	Exporting	
	Creating Task Lists	
	Creating Schedules	
	Charting	

Understanding Queries	A query is a question that you define based on a specific set of criteria, and submit to the Information Server to receive specific information about resource objects in your environment.		
	By querying your environment using bv-Control for NetWare, administrators can use the Query Builder process to create reports that are specific to the data sources and fields of the query. The query can be customized to report on specific information in your organization. The query results can then be saved for analysis and planning of your environment at a later time.		
	You must have processing rights to create and modify queries. Only BindView Administrators can assign user rights for query processing.		
	For information on assigning query rights, see the <i>BindView RMS Console and Information Server User Guide</i> , or online Help.		
	You must also have at least one credential database assigned to you to be able to successfully query resource objects. You can only query the resource objects whose credentials are valid in the credential database that is assigned to you.		
Query Components	The following components allow you to create a query:		
	<ul> <li>Data Source - Fields that represent a resource object or a collection of resource objects that are specific to bv-Control for NetWare.</li> </ul>		
	<ul> <li>Field Specification - Allows you to select the fields to be reported on by the query.</li> </ul>		
	• <b>Filter Specification</b> - Allows you to define values for certain fields in the query results. These fields are used to select specific records, and to more narrowly define the information that the query gathers.		
	Filters are not required in query definitions.		
	• <b>Sort Specification</b> - Allows you to determine the order in which fields and values appear in the query results.		
	Sorts are not required in query definitions.		
	<ul> <li>Scope Specification - Allows you to define which resource objects are examined during query processing.</li> </ul>		

Creating a Query	The first step in defining a query is to determine the information about your environment that you want to gather. When defining a query, use the <b>Select Data Source</b> dialog and the <b>Query Builder</b> dialog to specify the information that you want and the manner in which you want it collected. These dialogs can be accessed from the <b>New Query</b> icon on the BindView product toolbar.
	For additional information about the <b>Select Data Source</b> and <b>Query Builder</b> dialogs, see the <i>BindView RMS Console and Information Server User Guide</i> .
Selecting a Data Source	You must select a data source for the query definition. A data source contains fields that represent a resource object, or a collection of resource objects.

- To select a data source
  - **1** Click the **New Query 1** icon on the product toolbar.

The **Select Data Source** dialog appears.

Select Data Source	?
Show Advanced Data Sources	ОК
🖃 🚭 by-Control for NDS eDirectory	▲ Cancel
🗄 🗄 🛄 Alias	
🗎 🕀 🔰 Audit Container	Help
🗎 🕀 🔰 Audit Summary	
🗎 🕀 🔰 Audit Usage History	
🗄 🖳 📋 Connection Log for Tree	
📄 🕀 📋 Container	
📄 🕀 📋 DirXML Driver	
📄 🕀 📋 DirXML DriverSet	
🗄 📋 DirXML Publisher	
📄 🕀 📋 DirXML Rule	
📄 🕀 📋 DirXML StyleSheet	
🗄 🕕 📋 DirXML Subscriber	
🗄 🕕 📋 Directory Map	
🗄 🕀 📋 Group	
🗄 🕛 LDAP Group	
IDAP Server	<b>•</b>
Description:	
Module for reporting on NDS objects.	<u> </u>
	<b>Y</b>



2 Select a data source and click **OK**.

The **Query Builder** dialog appears (Fig. 61 on page 76).

Adding Fields To add fields to the query definition, use the Field Specification tab on the Query Builder dialog. A query definition must contain at least one field.

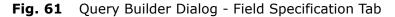
The added fields define the type of information received about the resource objects when the query is run.

#### To add a field

**1** Select a field in the **Available Fields** list.

You can view a description of the selected field by clicking the **Field Info** button.

Query Builder - Untitled by-Control for ND5 eDirectory Tree Query	×
Field Specification Filter Specification Sort Specification Scope	
Filter Field Names: Apply       Available Fields       Image: Tree       Image: Tree <t< td=""><td>Field Info</td></t<>	Field Info
Coursentation     Documentation     Forms     Invisible Object Detection     Lists     NDS Object     Report Run Time     Security Analysis	Add
Selected Fields	Remove
Tree Name	Remove All
	Descriptor
	Field Details
OK Cancel	Help



#### 2 Click Add.

Fields can also be added by double-clicking them, or by dragging them to the **Selected Fields** list.

The field appears in the **Selected Fields** list.

Fields appear in the dataset in the order they appear in the **Selected Fields** list. The field order can be rearranged by dragging fields.

Some fields, such as ranges, require a descriptor value. A dialog (Fig. 62) for that field appears after you click **Add**.

Descriptor Value	C Prompt Value	ОК
		Cance
		Help
Enter Date/Time: 5/12/2004	▼ 3:39:59 PM	
Enter Date/Time: 5/12/2004	▼ 3:39:59 PM ÷	

Fig. 62 Descriptor Field Dialog - Prompt Value

After you enter the value and click **OK**, the field with its value appears in the **Selected Fields** area.

Filtering the AvailableYou can quickly search for a specific field in the selected data sourceFields Listby creating a filter for the Available Fields list.

# To filter the Available Fields list

**1** Enter the string in the **Filter Field Names** text box (Fig. 61 on page 76).

#### 2 Click Apply.

The fields that contain the string appear in the **Available Fields** list (Fig. 61).

Clearing the **Filter Field Names** box and clicking **Apply** repopulates the **Available Fields** list with all the fields contained in the data source.

## Adding Filters

You can add filters to the query definition to reduce the number of resource object records returned in the dataset. Filters consist of one or more filter terms. A filter term is a value, or group of values, selected by the user that defines the record types that are returned in the dataset.

Users must supply all filter term values before the Information Server can process a query that contains a filter. Users supply filter term values either immediately after adding a filter term to a query definition, or each time the query is run. If the user who creates the query definition includes a prompt user command, the filter term value must be defined by the user who runs the query.

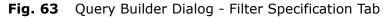
When the Information Server processes a query, it applies the filter to each record that is gathered for the selected resource objects. Only the records that match the filter are included in the dataset.

#### To add a filter term

1 Select the **Filter Specification** tab on the **Query Builder** dialog.

2

Query Builder - Untitled by-Control for NDS eDirectory Tree Query           Field Specification         Filter Specification         Sort Specification         Scope	2
Filter Field Names: Apply	
Available Fields	Field Info
E C All Fields	
Admin Equivalent Objects (%)	
Admin Equivalent Users	
Analysis Of Organizational Units By Tree Layer	
Bindery Contexts (Detail)	Add
Bindery Contexts [List]	
Has More Than Novell Recommended Orgs?	
Operator Expression	Modify
	Remove
	Remove All
	Descriptor
	AND/OR
Add ( ) Remove ( )	
OK Cancel	Help



**3** Select a field for which you want to define a filter term and click **Add**.

The **Filter Term Definition** dialog appears.

Filter Term Definitio	n			×
Specific Value	C Special Value	C Another Field	C Prompt User	ОК
Admin Equivalent Obje	ects (%)			Cancel
Equal To	•			Help
Specify a value:				

Fig. 64 Specific Value Filter Term Definition

The **Filter Term Definition** dialog allows you to further filter the selected field.

- **4** Select a filter option.
- **5** Select an operator from the drop-down list.
- **6** Enter a specific value for the operator in the **Specify a value** box.
- 7 Click OK.
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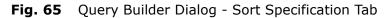
	The filter term appears in the <b>Expression</b> list on the <b>Filter Specification</b> tab (Fig. 63 on page 78).
Grouping Filter Terms	You can group two or more filter terms that you want to function as a single unit by using the <b>Add</b> parentheses buttons on the <b>Filter</b> <b>Specification</b> tab to group filter terms. The <b>Remove</b> parentheses buttons ungroup the filter terms.
<i>Modifying and Removing Filter Term Definitions</i>	To modify the filter term, select the filter term and click <b>Modify</b> . The <b>Modify</b> button invokes the <b>Filter Term Definition</b> dialog (Fig. 64 on page 78). To remove a filter term, select the filter term and click <b>Remove</b> .
Filtering Field Names	As on the <b>Field Specification</b> tab, you can quickly search for a specific field in the selected data source by creating a filter for the Filter Field Names. See "Filtering the Available Fields List" on page 77.
Adding Sorts	Sorts determine the order in which sort fields and sort field values appear in the dataset. You can only apply sorts to fields that you

To add a sort

added to the query definition.

**1** Select the **Sort Specification** tab on the **Query Builder** dialog.

Query Builder - Untitled by-Control for NDS eDirectory Tree Query	×
Field Specification Filter Specification Sort Specification Scope	
Available Fields Admin Equivalent Users Total Users	Field Info
Selected Fields 2 ↓ Tree Name	Toggle Sort Remove
Select Duplicate Key Options C Allow Records with Duplicate Key C Only Allow Records with Duplicate Key C Suppress Records with Duplicate Key	
OK Cancel	Help



2 Select a field and click Add.

	The selected sort fields appear in the <b>Selected Fields</b> list (Fig. 65 on page 79).
	The fields and field values appear in the dataset according to the sort specification.
	<b>3</b> Select a duplicate key option.
	<ul> <li>Allow Records with Duplicate Key - Includes all records regardless of key duplication.</li> </ul>
	<ul> <li>Only Allow Records with Duplicate Key - Includes only those records that have duplicate keys.</li> </ul>
	<ul> <li>Suppress Records with Duplicate Key - Includes only the first record of a key.</li> </ul>
<i>Modifying and Removing Sort Fields</i>	To modify the sort direction of the fields, select a field and click <b>Toggle Sort</b> to toggle between an A to Z or Z to A sort for the values returned for the sort field. You also can change the sort direction by double-clicking the sort field.
	To modify the sort order of the fields, select a field and drag it to the desired position.
	To remove a field, select a field and click <b>Remove</b> . The field is removed from the <b>Selected Fields</b> list.
Adding Scopes	A scope narrows the range of resource objects that are queried. A scope consists of user-selected scope items. A scope item is a single resource object or a container that holds several resource objects.
	Since the Information Server only queries the resource objects indicated by the scope, you can use scopes to significantly reduce the time it takes to retrieve a dataset.
►	To add a Scope
	<b>1</b> Select the <b>Scope</b> tab on the <b>Query Builder</b> dialog (Fig. 66).
	2 Select a scope in the <b>Available Items</b> list.

Query Builder - Untitled by-Control for NDS eDirectory Tree Query	×
Field Specification   Filter Specification   Sort Specification   Scope	
Available Item(s)	
Default     Advanced Scopes	
All Trees in Credentials Database	
Re- Named Scopes	
Add Scope Configure Dynamic Indexing	
_ Selected Item(s)	
🔁 Default	
Remove Scope Save as Named Scope	
OK Cancel Help	

Fig. 66 Query Builder Dialog - Scope Tab

#### 3 Click Add Scope.

The scope appears in the **Selected Item(s)** list.

If the selected data source allows you to specify advanced scope filters, the **Additional Settings** dialog appears.

**Using Dynamic Indexing** Dynamic indexing reduces the display time of scope items on the **Scope** tab of the **Query Builder** dialog. Dynamic indexing alphabetically categorizes large numbers of nodes, or scope items, into several folders.

Dynamic index folders have a unique icon iand are labeled with the name of the first and last scope item in the folder. By default, dynamic indexing is enabled for all users. Each user has their own default dynamic indexing settings.

- To disable or modify your default dynamic index settings
  - **1** Click **Configure Dynamic Indexing** on the **Scope** tab.

The **Configure Dynamic Indexing** dialog appears.

Configure Dynamic Indexing	×
🔽 Enable Dynamic Indexing	OK
Settings Maximum Folders 100	Cancel
Nodes Per Folder 1000	Help

Fig. 67 Configure Dynamic Indexing Dialog

- **2** Select to enable or disable dynamic indexing. If you disable dynamic indexing, proceed to step 4.
- **3** Enter the number of folders and nodes that you want to be displayed in the **Available Items** list.
- 4 Click **OK**.
- **Saving Named Scopes** A named scope is a group of saved scope items stored on the Information Server. All users of the Information Server can access any named scope saved on it.
  - **1** Select the **Scope** tab on the **Query Builder** dialog (Fig. 66 on page 81).
  - 2 Select the item in the **Selected Item(s)** list.
  - 3 Click Save as Named Scope.

The Named Scope dialog appears.

Named Scope	
Enter a name for thi	s named scope:
I	
р а	
ОК	Cancel

Fig. 68 Named Scope Dialog

- **4** Enter the name for the scope.
- 5 Click OK.

The named scope is saved on the Information Server that you are currently using and can be reused for other queries based on the data source.

Adding Named Scopes to Query Definitions	You can add a named scope to any query definition that contains the same data source as the one associated with the named scope. When you add a named scope, you link the named scope to the query definition.		
►	То	add a named scope to a query definition	
	1	Expand the <b>Named Scopes</b> folder on the <b>Scope</b> tab on the <b>Query Builder</b> dialog (Fig. 66 on page 81).	
		All named scopes stored on the Information Server for the selected data source appear.	
	2	Select the named scope.	
	3	Click Add Scope.	
		The scope is now listed in the <b>Selected Item(s)</b> field.	
	4	Click <b>OK</b> .	
		The named scope is linked to the query definition.	
	sco	<b>te:</b> If you save a query definition that contains a link to a named pe, any modifications made to the named scope are omatically applied to query definitions that use the named pe.	
Removing a Scope	To remove a scope, select the scope and click <b>Remove</b> . The scope is removed from the <b>Selected Fields</b> list.		
Saving a Query Definition	A query definition is referred to as the Query Binder by the BindView RMS Console. By default, the Query Binder file is saved in the <b>My Items</b> folder, a subfolder found in the <b>Risk Assessment</b> <b>and Control</b> subfolder of the <b>BindView Risk Management</b> container. If you want to save your Query Binder in a different location, you can browse for the location and select it. The <b>Query</b> <b>Options</b> dialog is used to save the Query Binder.		
►	То	save a Query Binder	
	1	Click <b>OK</b> on the <b>Query Builder</b> dialog.	
		The Query Options dialog appears.	

Query Options		×
View As		Run
<ul> <li>Grid</li> </ul>		Modify
C Chart	Chart Settings	Save
C Report		Help
		Cancel

Fig. 69 Query Options Dialog

2 Click Save.

Save Query		X
Browse in Folder:	\My Items	· 🗈
ny query		
Selection Name:		
	Query Binder and Shortcut allowed	
	OK Cancel H	telp

The **Save Query** dialog appears.

Fig. 70 Save Query Dialog

- **3** Enter the name of the Query Binder in the **Selection Name** field.
- 4 Click **OK**.

The **Query Options** dialog reappears (Fig. 71), and you are now ready to run the query.

#### **Running Queries**

You can run a query from the **Query Options** dialog or the **Query Binder** shortcut menu. When you run a query, the Information Server polls the resource objects you selected in the query definition and returns this information in a dataset.

Datasets can be displayed in the following view types:

• **Grid** - Displays the dataset in a spreadsheet-style interface. Grid columns represent the fields included in the query definition, the grid rows represent the resource object records, and grid cells contain the gathered resource object attributes.

If a record length exceeds the displayed column width, a red arrow appears in the record cell. Red arrows invoke pop-up windows when you place the cursor on them.

After running a query, always check for messages that have been returned with the query results. Click the **Messages** button at the lower right-side of the report to view messages.

- **Chart** Displays the results of a query in a graphic format. Charts are created and modified using the Chart Builder Wizard. The wizard guides you through the process of building a custom chart for your query. During the building process, you select the type of chart (column, pie, or histogram) you want to build, and how you want the chart to be labeled.
- **Report** Allows you to create a variety of customized reports for your query results, and to print a report of the data results from your query. The Console is installed with default settings. However, you can customize the default settings by using the
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# Global Report Style Settings item in the BindView RMS Configuration folder.

For more information about query results settings, see the *BindView RMS Console and Information Server User Guide*.

- **•** To run a query from the Query Options dialog
  - 1 Click **OK** on the **Query Builder** dialog.

The **Query Options** dialog appears.

Query Options		×
View As-		Run
Grid		Modify
🔿 Chart	Chart Settings	Save
C Report		Help
		Cancel

Fig. 71 Query Options Dialog

- 2 Select the view type in the **View As** area.
- 3 Click Run.

The dataset appears.

🔲 Un	titled by-Contro	for NDS eDir	ectory Tree Qu	ery	- D ×
Grid	Edit View Help				
] 🗟 🏈 🍻 🌮 🛅 👷 🛄 🗳 🎭 🗛 🧇 🗈					
	Tree Name	Admin Equ	ivalent Users	Total Users	
1	10.206.124.5	[Form]	Þ	260	
2	Q-THORN	[Form]	Þ	34	
	Record 1 of 2		Messages: 0		

Fig. 72 Query Results in Grid View Type

## **•** To run a query from an existing query binder

- 1 Double-click **Risk Assessment and Control** in the **BindView RMS** container.
- 2 Click **My Items** to view the existing saved queries.
- **3** Select the query you want to run.

Image: Second secon	🚡 BindView - [BindView RMS\Risk Assessment and	nd Control\My Items]	<u>_                                    </u>
Tree       My Items Content of '\My Items\'         Image: Search and Control       Name         Image: Search and Control       Image: Search and Control         Image: Search and Control for NDS eDirectory       Image: Search and Control         Image: Search and Control for NDS eDirectory       Image: Search and Control Control for NDS eDirectory         Image: Search and Control for NDS eDirectory       Image: Search and Control for NDS eDirectory         Image: Search and Control for NDS eDirectory       Image: Search and Control for NDS eDirectory	🛛 📸 <u>C</u> onsole <u>W</u> indow <u>H</u> elp		_ 8 ×
BindView RMS   Risk Assessment and Control   All User Items   Pre-Defined   Shared   Image: Shared	Action View $4 \Rightarrow 1$ $1 \Rightarrow 1$	× 🗗 🖻 堤   📰 🦉 🎦 🛍 🖉 🗞 🕅	
Image: Second	Tree	My Items Content of '\My Items\'	
		Body       And View As Grid         Print       And View As Grid         Print       And View As Chart         View       And Preview         Settings       And Print         Manage       And Print         Schedule       And Export         Create Shortcut       And SaveTo DSC         Create Shortcut       Export Definition To         Cut       Copy         Delete       Rename         Refresh	

Fig. 73 Accessing the Query Binder

4 Select **Run>And View As Grid** from the shortcut menus to run the query.

The query results appear in a grid (Fig. 72).

Rerunning Queries from the Grid Toolbar	The <b>Rerun Query</b> icon on the grid toolbar allows you to rerun the query that was used to create the dataset displayed on the grid. The resulting dataset is automatically displayed as a grid.
	Saving datasets in a query binder using either the <b>Save</b> or <b>Save As</b> command removes the query task from the <b>Task Status</b> dialog because the corresponding dataset has been moved into a query binder.
Monitoring the Status of Processed Queries	Using the <b>Task Status</b> dialog, you can quickly monitor and manage your query tasks that are processed by the Information Server. You can access the <b>Task Status</b> dialog by clicking the <b>Task Status</b> icon on the product toolbar, or the <b>View Task Status</b> option on a taskpad.

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	004 12:27:21 📗
0 402 TEST Query 5/12/2004 12:26:53 PM 5/12/20	004 12:26:57
Signal State Server Query 5/12/2004 12:20:14 PM 5/12/20	004 12:20:16

Fig. 74 Task Status Dialog

You can monitor query tasks by observing their associated status icons. You can manage query tasks using the **Query Task** shortcut menu commands:

- View Displays the dataset gathered for the query as a grid.
- Halt Stops query processing and displays the gathered dataset as a grid.
- **Delete** Stops query processing and deletes the gathered dataset.
- **Save** or **Save As** Links the dataset to the query binder containing the query definition for the processed query.

# **Dialog Book**

A Dialog Book provides an alternative view of the data available from certain data sources. You can access the Dialog Book using one of the following methods:

- Double-click a record in a grid
- Right-click an object in the Details pane
- Right-click an object in the Console tree

The Dialog Book obtained from a dataset may contain some of the available fields in the data source even if the fields were not included in the query. The fields are organized by tabs in the Dialog Book.

The data in the grid is displayed one row at a time. You use the arrow buttons at the bottom of the dialog to move from one record to another.

- To access the Dialog Book from a dataset grid
  - **1** Run a query.
  - **2** On the query results grid, double-click a record.

The <b>Dialog</b>	Book	dialog	appears.
-------------------	------	--------	----------

10.206.124.5	<
Partitions Schema Extensions Master Replica Servers	
[Root]	
Record 1 of 2 I Help	

Fig. 75 Dialog Book Dialog

**3** Select the appropriate tab to access information about the record you selected.

**Note:** Because data is regenerated when you double-click on a record, the information in the Dialog Book may be different than the data in the grid.

Using ActiveAdmin	The ActiveAdmin® feature is used to manage the following items from the Console:
	<ul><li>Resource objects</li><li>Historical datasets</li><li>Session logs</li></ul>
	Users with access rights can manage resource objects by deleting them, or by changing their attributes. When you use ActiveAdmin to manage resource objects, the actual resource objects in your enterprise are deleted or changed. ActiveAdmin does not change resource object records in historical datasets.
	BindView Administrators can manage historical datasets and session logs by deleting them from the Information Server.
	You must have an ActiveAdmin license and processing rights to use ActiveAdmin. For additional information on ActiveAdmin user rights, see the <i>BindView RMS Console and Information Server User Guide</i> .
Deleting Resource Objects	You can delete any resource object that is represented by a data source that supports the ActiveAdmin delete feature. You access the ActiveAdmin delete feature from the <b>Delete</b> command on the shortcut menu of a grid row. When you use the <b>Delete</b> command, the Information Server deletes the resource object represented in the grid row.
	<b>Warning:</b> The ActiveAdmin <b>Delete</b> feature permanently deletes resource objects from your enterprise.
►	To delete a resource object
	<b>1</b> Run a query created from a data source that supports the ActiveAdmin delete feature and view the dataset as a grid.
	Make sure that the data source selected for the query represents the resource objects you want to delete.

For information on running a query, see "Running Queries" on page 84.

The query results appear in a grid (Fig. 76).

rid E	dit View Help							
) 🖳 🥩 🗞 🧳 🛅 📰 🛄 📦 🗛 🕸 🖪								
	Tree Name	Object Name (DN)	Auditing Enabled?	Intruder Detection Is Active?				
1	10.206.124.5	[Root]	View	No				
2	10.206.124.5	àéùöööx.TEST.USERS.LAB	Edit No	No				
3	10.206.124.5	Apache Group.LAB	No	No				
4	10.206.124.5	apchadmn-Registry.LAB	Col 🕨 No	, No				
5	10.206.124.5	Applications.Logging Services	Row ► A	ctiveAdmin 🕨 Delete 🛛 No				
6	10.206.124.5	Archive Version Management.Role Based Service 2.LAB	No	No				
7	10.206.124.5	ark.Role Based Service 2.LAB	No	No				
8	10.206.124.5 auth Idap module.NetWare Group.Apache Group.LAB No N		No					
9	10.206.124.5	Authorized Login Methods.Security	No	No				
10	10.206.124.5 Authorized Post Login Methods.Security No		No					
11	10.206.124.5	base.Role Based Service 2.LAB	No	No				
12	10.206.124.5	CertMutual.Authorized Login Methods.Security	No	No				
	Becord 1 of 13							

Fig. 76 Grid with ActiveAdmin Delete Feature

- **2** Select the record to be deleted.
- **3** Right-click the associated row number and select **Delete** from the shortcut menu.

The **Delete Action** confirmation dialog appears.

4 Click OK.

The session log appears after the Information Server processes the ActiveAdmin task.

Changing Resource<br/>Object AttributesYou can change any resource object attribute collected for a field<br/>that supports the ActiveAdmin change feature. Fields that support<br/>the ActiveAdmin change feature are editable fields and are

identified by the **ActiveAdmin** icon  $\mathbf{k}$  on the **Query Builder** dialog.

You can access the ActiveAdmin change feature from the **Edit** command on the shortcut menu of a grid cell. The **Edit** command is only available on the cells in an editable field column.

The **Edit** command invokes an ActiveAdmin change dialog. When you use this dialog to change the value appearing in the grid cell, the Information Server changes the associated resource object attribute. You can change several values in a grid column at once, or change the values individually.

**Warning:** The ActiveAdmin **Edit** feature permanently changes resource objects in your Enterprise.

# To change resource object attributes

1 Run a query created from a data source containing the editable fields that represent the resource objects you want to modify and view the dataset as a grid.

For detailed information on running queries, see "Running Queries" on page 84.

The grid automatically appears after the query has run.

ria E	dit View Help			
<u>i</u> (	3   🏘 🛷   🚺	1 👷 🔟 🎕 🐞 🗛 🧐 🗉		
	Tree Name	Object Name (DN)	Auditing Enabled?	Intruder Detection Is Active?
1	10.206.124.5	[Root]	View	No No
2	10.206.124.5	àéùöööx.TEST.USERS.LAB	Edit	) No
3	10.206.124.5	Apache Group.LAB		No No
4	10.206.124.5	apchadmn-Registry.LAB		No
5	10.206.124.5	Applications.Logging Services	Row No	No
6	10.206.124.5	Archive Version Management.Role Based Service 2.LAB	No	No
7	10.206.124.5	ark.Role Based Service 2.LAB	No	No
8	10.206.124.5	0.206.124.5 auth Idap module.NetWare Group.Apache Group.LAB No No		No
9	10.206.124.5 Authorized Login Methods.Security No		No	
10	10.206.124.5 Authorized Post Login Methods.Security No No		No	
11	10.206.124.5	base.Role Based Service 2.LAB	No	No
12	10.206.124.5	CertMutual.Authorized Login Methods.Security	No	No

Fig. 77 Grid with ActiveAdmin Edit

- 2 Select the resouce object you want to modify.
- **3** Right-click the value and select **Edit** from the shortcut menu.

The ActiveAdmin Change dialog appears.

4 Edit the value and click **OK**.

The **Change Action** confirmation message appears.

5 Click OK.

If you have access rights, the session log appears after the Information Server processes the ActiveAdmin task.

# Deleting Historical Datasets and Session Logs

BindView Administrators can delete any historical dataset or session log stored on the Information Server, even those created by other users. BindView Administrators use grids created from **Historical Dataset** queries to delete historical datasets or session logs.

# To delete a historical dataset or session log

**1** Run a **Historical Dataset** query and select to view the dataset as a grid.

All the historical datasets and session logs stored on the Information Server appear in a grid.

Grid Ed	dit View Help		
🗟 🍯	ð 🗞 🛷 🛅 號 🛄 🕸 🗞 🗛 🧐 🗈		
	Title	Username	
1	Available Data Source and Field Details	QNT-CANADA/Administrator	
2	Change Session Log : Untitled bv-Control for Windows Machin 🖪	QNT-CANADA/Administrator	
3	Change Session Log : Untitled bv-Control for Windows Machin 🖪	QNT-CANADA/Administrator	
	ctiveAdmin ▶ Delete Intitled by-Control for Windows Volume ∎	QNT-CANADA/Administrator	┢
_ <b>_</b> _	Detaned Oser Documentation	QNT-CANADA/Administrator	
6	my query	QNT-CANADA/Administrator	
7	Untitled bv-Control for Windows Machines Query	QNT-CANADA/Administrator	
8	Untitled bv-Control for Windows Machines Query (1)	QNT-CANADA/Administrator	
9	Untitled bv-Control for Windows Machines Query (1)	QNT-CANADA/Administrator	
10	Untitled bv-Control for Windows Machines Query (10)	QNT-CANADA/Administrator	
11	Untitled by-Control for Windows Machines Query (11)	QNT-CANADA/Administrator	
12	Untitled by-Control for Windows Machines Query (12)	QNT-CANADA/Administrator	I.
•	1	•	٢

Fig. 78 Historical Dataset Delete

- **2** Select the historical dataset or session log to be deleted.
- **3** Right-click the row number and select **Delete** from the shortcut menu.

The **Delete Action confirmation** dialog appears.

4 Click OK.

If you have access rights, a session log appears after the Information Server processes the ActiveAdmin task.

# Baselining

Baselining compares the records of two historical datasets linked to a query binder and produces a delta dataset that you can export or display as a grid or report. Delta datasets are used to view exceptions and monitor changes in your resource objects over time.

Baselining can help you perform risk management by allowing you to view exceptions and monitor changes in your environment. You can then analyze the differences to determine how your environment has changed between query executions.

You must have at least two historical datasets linked to a query binder to use the baseline feature. These historical datasets must be created from a query definition that contains a data source that supports baselining.

When you baseline two historical datasets, the records in the newer dataset are compared against the records in the older dataset. The older dataset is called the baselined dataset, and the newer dataset is called the compared dataset.

When you run a baseline, the Information Server creates a delta dataset that contains all baselined and compared dataset records that match the user-selected record status options.

Each record status has an associated icon.

# Table 2 Baseline Record Status Types



#### Creating a Delta Dataset

When you create a delta dataset, it is automatically displayed as a grid. Although you cannot save delta datasets, you can use the grid functionality to print a report or export the delta dataset.

# To create a delta dataset

1 Right-click the query binder file in the **BindView RMS>My Items** folder and select **Manage>Historical Data** from the shortcut menu.

The Manage Historical Data dialog appears.

ailbox body contents	×
Records User Name	View
6/6 Q-CABBAGE\jmcneil	
13/13 Q-CABBAGE\jmoneil	Delete
	Run Baseline
	Lock
	Help
<b></b>	neip
Max Historical Runs (per user): 50	Done
	Records User Name 6/6 Q-CABBAGE \imcneil 13/13 Q-CABBAGE \imcneil

Fig. 79 Manage Historical Data Dialog

2 Select the two historical datasets that you want to baseline. Hold the **Control** key down as you make your selections.

**Note:** The **Run Baseline** button appears dimmed if the data source in the query definition does not support baselining.

3 Click **Run Baseline**.

The **Baseline Options** dialog appears, configured with the default settings.

Baseline Options	x
Record Status to Include:	ОК
Added	Cancel
Changed	Help
🔲 Unchanged	
List Field Display Options	
Show added and deleted li:	st items
C Show old and new list value	es

Fig. 80 Baseline Options Dialog

- 4 Select a Record Status option.
- 5 Select a List Field Display option.
- 6 Click OK.

The delta dataset results appear on a baseline grid.

🧾 ma	ilbox boo	ly contents				
Grid	Edit Viev	v Help				
] 🚉 (	I 😽	🧳   🛅   A 🧐 👘				
	Status	Server Name	Display Name	Folder Path	Subject	Body
1	1	L-PRESCOTT-NT4S	dd	Inbox	Welcome to Microsoft Outle 🛛	<http: icons.gif:="" outlook="" outlook9="" specs="" th="" welcomemsg="" 🖪<=""></http:>
2	*	L-PRESCOTT-NT4S	_bob 1	testfolder	[Empty]	[Empty]
3	*	L-PRESCOTT-NT4S	_bob 1	testfolder	[Empty]	[Empty]
4	*	L-PRESCOTT-NT4S	_bob 1	testfolder	Out of Office AutoReply:	I am out of the office do not ever call me again. 🛛 🕞
5	*	L-PRESCOTT-NT4S	_bob 1	Sent Items	[Empty]	[Empty]
6	*	L-PRESCOTT-NT4S	_bob 1	Sent Items	[Empty]	[Empty]
Record 1 of 6 Messages: 0						

Fig. 81 Delta Dataset Results on a Baseline Grid

The baseline grid displays all records from the two historical datasets that match the selected record status options. The baseline grid is used to create a report of the delta dataset, or to create a delta dataset export file.

# **Exporting** The Exporting feature allows you to format and send data so that it can be used by another application. You can export the following types of BindView data:

- Datasets
- Historical datasets
- Delta datasets
- Session logs
- Charts

The **Export Setup** dialog is used to export datasets and session logs. The data is exported by either the Console or the Information Server machine, depending on how you open the **Export Setup** dialog.

#### Table 3 Invoking the Export Setup Dialog

Items that invoke the Export Setup Dialog	Machine to Export From
Export button 🛅 on the Grid toolbar	Console
<b>Export</b> command on the <b>Grid</b> menu of a grid	Console
<b>Export</b> button and command on the <b>Grid</b> menu of a baseline grid	Information Server
Run>And Export command on the Query Binder shortcut menu	Information Server
Export button on the Manage Historical Data dialog	Information Server
Query or Baseline Post Process Commands dialog	Console or Information Server

Exporting from the Information Server machine is more secure because BindView Administrators can restrict the directories that users can send export files to.

You can also use the **Export Settings** dialog to save export settings so that you can apply them to multiple datasets or session logs.

Exporting Prerequisites	Before you export a dataset or session log, you must configure the report settings and the export mail server.
Report Settings	Report settings determine the appearance of the report.
►	To configure the report settings
	<ol> <li>Click the Grid menu on the dataset and select Report Settings.</li> </ol>
	2 Select the <b>Fields</b> tab and select the <b>Print</b> check boxes for each field you want to export.
	3 If you are creating a text-based export file, you should select Auto in the Column Width area on the Spreadsheet tab.
	For additional information on report settings, see the <i>BindView RMS</i> Console and Information Server User Guide.
Exporting to a Disk File	You can export a dataset or session log to a disk file by specifying a path in the <b>File Name</b> box on the <b>Export Settings</b> dialog.
	1 Open the Export Setup dialog using one of the methods listed in Table 3 on page 96. Export Setup Folder Name: <a href="mailto:??PERSONAL%">??PERSONAL%</a> Folder Name:

Fig. 82 Export Setup Dialog

Done

Cancel

Help

2 Click Choose.

Export Now

The **Choose Export** dialog appears.

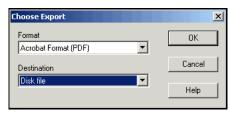


Fig. 83 Choose Export Dialog

- **3** Select a format for the export file from the **Format** drop-down list.
- 4 Select **Disk file** from the **Destination** drop-down list.
- 5 Click OK.

The **Export Setup** dialog reappears with the format and destination settings that you defined (Fig. 82 on page 97).

*Note:* If you selected **Character-separated values**, **Paginated Text** or **MS SQL Server** for your format, a secondary dialog appears. Access the context-sensitive Help on the dialog for detailed information on defining the required format settings.

- 6 Enter the path and file name in the **Folder Name** and **File** boxes. You can use the browse (...) button to select a different folder.
- 7 If you want to add the exported data to an existing file or table, select **Append to file/table if it already exists**.

If the selected export format does not support the append feature, this option will be dimmed.

8 Click Export now.

The dataset or session log is exported in the defined format to the disk file destination indicated in the **Folder Name** box.

Saving ExportThe three types of default export settings are automatically appliedSettingsto the Export Settings dialog according to the following hierarchy:

- Export Settings Item
- User (My Setup)
- Global (Everyone's Setup)

All default export settings are stored on the Information Server. The export settings item and user default export settings are specific to the user who created them. However, all users can access export settings items that reside in the Shared folder, and the global default export settings that are saved by the BindView Administrator.

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- To save export settings
  - **1** Open the **Export Setup** dialog (Fig. 82 on page 97).
  - 2 Click To Export Settings Item.

The Save Report Item dialog appears.

Save Report Item 🛛 🕺 🕺
Browse in Folder: My Items
Selection Name:
Save Type: Export Settings and Shortcut allowed
OK Cancel Help

Fig. 84 Save Report Item Dialog

- **3** Enter the name of the export settings item in the **Selection Name** box.
- 4 Click OK.

The **Export Setup** dialog reappears (Fig. 82 on page 97).

5 Click OK.

The settings are saved as the default for the query binder.

As My Setup ExportIf you want to save the settings defined in the Export Setup dialog<br/>as your user default export settings, click As My Setup in the Save<br/>area.

Global Default ExportOnly BindView Administrators can save global default exportSettingsSettings for bv-Control for Microsoft Exchange users of the<br/>Information Server.

An Information Server can store only one group of global default export style settings at a time. When a BindView Administrator saves new global default export style settings, the old settings are automatically deleted.

Information Servers cannot share global default export style settings.

BindView Administrators use the **As Everyone's Setup** button in the **Save** area of the **Export Setup** dialog to save the settings defined on the dialog as the global default export settings.

*Note:* The **As Everyone's Setup** option appears dimmed if you are not a BindView Administrator.

# • To apply export settings

- **1** Open the **Export Setup** dialog (Fig. 82 on page 97).
- 2 Click From Export Settings Item in the Load area.

The Select Report Item/Folder/Shortcut dialog appears.

Select Report Item/Folder/Shortcut		×
Browse in Folder: My Items	•	È
Settings 1		
		_
Selection Name: Settings 1		
Selection Type: Export Settings and Shortcut allowed		
OK	el He	lp

#### Fig. 85 Select Report Item/Folder/Shortcut Dialog

**3** Select the export settings item and click **OK**.

The **Export Setup** dialog is now configured with the settings saved in the export settings items.

For detailed information on exporting, see the *BindView RMS Console and Information Server User Guide*.

Creating Task Lists	The Task Lists feature allows you to group several tasks and manage them as one task file. A task list file can contain the following items:
	Query tasks
	Baseline tasks
	Post-process commands for added tasks
	Summary file commands
	When you run a task list, the Information Server processes all tasks and post process commands added to the task list in a sequence. If a baseline task is dependent on a query task, the Information Server processes the query task before the baseline task.
	When you create a task list, you can perform the following activities:
	<ul> <li>Add query tasks from query binders</li> </ul>
	Define post process commands for added query tasks
	<ul><li>Apply a scope for added query tasks</li><li>Add baseline tasks from query binders</li></ul>
	<ul> <li>Define post process commands for added baseline tasks</li> </ul>
	• Import query or baseline tasks from saved task lists
	<ul> <li>Define summary file properties</li> </ul>
	• To create a new task list
	1 Click the <b>New Task List</b> 🗵 icon on the product toolbar.
	The <b>Task List</b> dialog appears.
	Task List - Untitled
	Tal. Save
	Title Type Save As
	Bun
	Options
	Add Import Modify Delete

Fig. 86 Task List Dialog

2 Click Add.

The **Select a Task Type** dialog appears.

Select a Task Type	×
Query Baseline	Add
	Cancel
	Help

Fig. 87 Select a Task Type Dialog

**3** Select the task type and click **Add**.

The **Select Query Binder** dialog appears.

Select Query Binder	×		
Use '>' button to add from Available Items to the Selected Items. Use '<' button to remove from Selected Items. Use '>' button to add all and '<<' to remove all.			
Browse in Folder: My Items	▼ 📃		
Available Items:	Selected Items:		
📕 Mailbox Properties	You can type the full path here		
Tracking Logs	>		
	>>		
	<		
	<<		
Selection Type: Query Binder and Shortcut allowed			
Selection Type: Query Binder and Shortcut a	anowed		
	OK Cancel Help		

Fig. 88 Select Query Binder Dialog

4 Select the Query Binder from the **Available Items** list and click > or click in the **Selected Items** list and enter the full path of the item. To add all items from the **Available Items** list, click >>.

You can browse to other folders using the  $\boxed{1}$  button.

5 Click **OK** to close the **Select Query Binder** dialog.

The following dialogs that appear are based on the user selecting a Query task type. The dialogs and steps are similar for a Baseline task type.

The **Query Task Item** dialog appears configured with the selected query binder and default post process commands.

Query Task Item	×
Queries	ок
My Items\Mailbox Properties	Cancel
Browse to add items	
	Help
Run Post Process Commands Unattended	
Post Process Commands	
☑ Save Results Back To Query	
Commands Condition	
Add Modify Remove	
Hemove Hemove	

Fig. 89 Query Task Item Dialog

- **6** If you want to add additional query binders to the task item, click the browse (...) button and select the items.
- 7 If you want the Information Server machine to execute the added post process commands when the task list is run, select the **Run Post Process Commands Unattended** check box.

If this check box is cleared, the Console machine executes the commands.

8 Click Add.

The **Query Post Process Commands** dialog appears.



Fig. 90 Query Post Process Commands Dialog

A query task post process command tells the Console or Information Server machine what to do with the dataset gathered for the query task. You must have at least one post process command defined.

- **9** Select the post process command.
- 10 Click OK.

If the post process command requires additional user selections, a secondary dialog appears. If additional user selections are not required, the **Query Task Item** dialog reappears. The post process command you added appears in the **Post Process Commands** list. If you want to add another post process command, click Add and repeat Step 9 and Step 10. **11** Continue to add post process commands, if needed. 12 Click OK. The **Task List** dialog reappears. The guery task you added appears in the list of added tasks. After you have saved the task list, you can run it at any time. **Running Task Lists** You run task lists from the following locations: • Task List dialog Shortcut menu of a saved task list Schedules Command line Use the **Run** button on the **Task List** dialog to run the task list. After you run the task list, the **Run** button changes to **Run Again**. Saved task lists have shortcut menus that you can use to run the task list. To start a task list at a specified time, you can use the Console Create Schedule Wizard. As long as the BindView RMS Information Server is running, the task will be processed at the time you specify. *Note:* If you create the Scheduled Task on a machine hosting the BindView RMS Console, rather than a machine hosting the Information Server, and the machine is off, the Task List may not be processed on schedule. To ensure that it is processed at the desired time, you should consider creating the Scheduled Task on the machine hosting the Information Server. You can also use the command-line task list launcher or a third-party scheduling application. For additional information on scheduling task lists, see "Creating Schedules" on page 105. For information on using the command-line task list launcher or a third-party scheduling application, see the *BindView RMS Console* and Information Server User Guide.

# Creating Schedules

You can schedule existing task lists and queries for automatic processing by the BindView Information Server using the **Create Schedule Wizard**. As long as the machine that hosts the BindView Information Server is on and the BindView Information Server Service is running, the scheduled item will be processed at the specified time.

You can schedule tasks lists or queries and have them processed one time only, or on a daily, weekly, or monthly basis. When a task list is scheduled, the task list is processed using the user name and password combination you supply exactly as if that user executed the task list. Any post processing the task list performs will also be executed.

If the tasks in the task list are not set up to run post process commands unattended, all non-interactive post process commands (such as exporting) will be performed. Post process commands that require user interaction (such as displaying a grid or chart) will be performed when the user who created the schedule starts the Console.

To view existing schedules, click the **Schedules** container in the Console tree.

**Note:** If the current user is a BindView User, only the schedules they create appear. If the current user is a BindView Administrator, all existing schedules appear.

For complete information on Schedules, see the *BindView RMS Console and Information Server User Guide*.

# To schedule task lists

 Click the New Schedule 
 icon on the product toolbar, or click Schedules in the Console tree and double-click <doubleclick to add new schedule> in the Details pane.

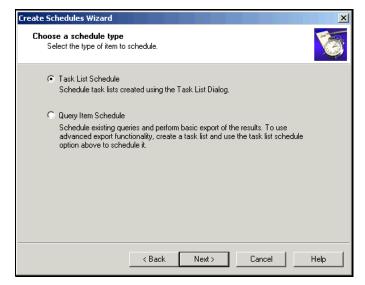
The **Welcome to the Create Schedules Wizard** appears (Fig. 91 on page 106).



Fig. 91 Welcome to the Create Schedules Wizard

# 2 Click Next.

The Choose a schedule type panel appears.



**Fig. 92** Choose a Schedule Type Panel

3 Select Task List Schedule and click Next.

The **Add Items** panel appears.

Create Schedules Wizard	×
Add Items You can either type or browse to the folder which contains all the items or type or browse to the specific item you want to run.	6
Items or Folders	
Type or browse to the folder or item.	
<back next=""> Cancel</back>	Help

Fig. 93 Add Items Panel

**4** Enter the full path and name of the folder or item to be added to the schedule. You can also use the browse (...) button that appears when you click in the text box to select the item. You can add one or more task lists, shortcuts to task lists, or folders.

If you add a folder, all the items in that folder will be added to the schedule, including subfolder contents, shortcuts, and linked folders.

If you click the browse (...) button, the **Select file** dialog appears.

Select file	×
Use '>' button to add from Available Items to the Selected Items. Use '>>' button to add all and '< Browse in Folder: \My Items	
Available Items:	Selected Items:
Task List Baseline of Mailbox Contents Task List Baseline of Mailbox Properties	You can type the full path here  You can type the full path here  <
Selection Type: Folder, Task List and Shortc	ut allowed
	OK Cancel Help

Fig. 94 Select File Dialog

**5** Select the item from the **Available Items** list and click **>**. To add all items from the **Available Items** list, click **>>**.

To remove an item in the **Selected Items** list, select it and click **<**. To remove all items, click **<<**.

6 Click OK.

The Add Items panel reappears (Fig. 93 on page 107).

7 Click Next.

The Name the schedule panel appears.

Create Schedules Wizard			×
Name the schedule Type a name for this schedule.			<b>B</b>
Type a name for this schedule:			
Perform this task:			
🔿 Daily			
C Weekly			
C Monthly			
🔿 One Time Only			
<	Back Next	Cancel	Help

**Fig. 95** Name the Schedule Panel

- 8 Enter a name for the schedule in the **Type a name for this schedule** field and select how often the task should be run.
- 9 Click Next.

The **Specify Schedule** panel appears.

Create Schedules Wizard	×
<b>Specify Schedule</b> Choose when the task should be performed.	1
Start time: 10:30:00 PM 💌 Every 2 💌 weeks	
Evely - veeks	
Select the day(s) of the week below:	
🔽 Monday 🔲 Wednesday 🔲 Saturday	
🗖 Tuesday 🔲 Thursday 📄 Sunday	
Friday	
< Back Next > Cancel	Help

Fig. 96 Specify Schedule Panel - Weekly Options

The contents of the **Specify Schedule** panel vary depending on how often you chose to run the task on the **Name the schedule** panel.

- **10** Select the time the task should run in the **Start time** box.
- **11** Select the options specific to the schedule and click **Next**.

The **Specify Account Information** panel appears.

Create Schedules Wizard		×
Specify Account Informal Enter the name and pass that user.	tion word of a user. The task will run as if it were started by	<b>E</b>
Enter the user name:	Q-DURIAN\administrator	
Enter the password:		
Confirm password:		
	Kext > Cancel	Help

Fig. 97 Specify Account Information Panel

**12** Enter the **User Name** and **Password** that the BindView Information Server uses when processing the task lists in the schedule, and confirm the password.

**Caution:** Use caution when using another user's credentials. The other user could make changes to their account, including changing the password, at any time. If changes are made to the account and you do not update the credentials in the schedule, the schedule will not be processed at the specified time.

13 Click Next.

The **Summary** panel appears.

eate Schedu	es Wizard	
	about to create a schedule with the following properties. Click Next to e schedule.	<b>B</b>
<u>Name:</u> <u>Type:</u> <u>Items:</u> <u>Schedu</u>	Mailbox body contents TaskList \My Items\Task List Baseline of Mailbox Contents I <u>ed to run:</u> At 10:20:00 AM on every Monday of every week starting 2/17/2004	
Type a br	ief description for this schedule:	
	< Back Next > Cancel	Help

Fig. 98 Summary Panel

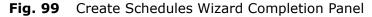
14 Verify that the settings are correct and enter a description of the schedule in the Type a brief description for this schedule field.

If you want to change any of the settings, click **Back**.

15 Click Next.

The **Create Schedules Wizard c**ompletion panel appears.





- 16 Click Finish to close the Wizard.
- **17** The new schedule item appears in the Details pane of the **Schedules** container.

Charting	The chart feature is used to display datasets in a graphic format. Using the Chart Builder Wizard, you can create the following types of charts:		
	<ul> <li>Series – Displays the relative values of one or more fields for each record in a dataset.</li> </ul>		
	<ul> <li>Histogram – Displays the value frequencies for the records associated with a single field in a dataset. For information on creating a Histogram Chart, see the <i>BindView RMS Console and Information Server User Guide</i>.</li> <li>You can open the Chart Builder Wizard from the following locations:</li> <li>Chart options in the Query Options dialog</li> <li>Chart-related Post Process Commands dialogs</li> <li>Grid toolbar and View menu</li> <li>Chart toolbar and View menu</li> <li>Query Binder shortcut menu</li> </ul>		
Creating a Series Chart	You should only use the series chart type if the dataset you are charting contains a limited number of fields and records.		
I	• To create a series chart		
	1 Open the <b>Chart Builder Wizard</b> and click <b>Next</b> .		
	Chart Builder Wizard		
	Don't display this page anymore		

Fig. 100 Chart Builder Wizard Welcome Panel

Finish

Cancel

Help

< Back Next >

Chart Builder Wizard	×
Chart Type You can choose the type and style of your chart.	
Chart Type: 🚺 Column	
☐ Histogram	
< Back Next > Finish Cancel Help	

#### The **Chart Type** panel appears.



2 Ensure that the **Histogram** check box is cleared and click **Next**.

Chart Builder Wizard		×
Chart Data Source You can define one or more	series to be displayed in the chart.	
Series: Member Count Add Remove	Series Properties Source field: Member Count Legend: Member Count	Y
Category (X) axis labels: Domain	Next > Finish Cancel	<b>▼</b> Help

The Chart Data Source panel appears.

Fig. 102 Chart Data Source Panel

- **3** Designate a field for each **Series** position by selecting the field from the **Source field** list.
- 4 Click **Add**. You must designate a field for each series position in the **Series** list.
- 5 Select the desired label from the **Category (X) axis labels** list and click **Next**.

The Chart Titles pa	anel appears.
---------------------	---------------

Chart Builder Wizard	×
Chart Titles You can specify the different titles that can appear on the chart.	
Chart Title:	_
X Axis Title: Display Name	
Y Axis Title:	_
< Back Next > Finish Cancel	Help

Fig. 103 Chart Titles Panel

6 Enter the titles for the chart and click **Next**.

The **Chart Legends** panel appears.

Chart Builder Wizard
Chart Legends You can choose the different legend options and locations.
<ul> <li>Show series legend box</li> <li>Series legend box location: Right</li> <li>Show X axis legend box</li> <li>X axis legend box location: Bottom</li> <li>Enable scrolling chart</li> </ul>
Number of visible columns: 10
< Back Next> Finish Cancel Help

Fig. 104 Chart Legends Panel

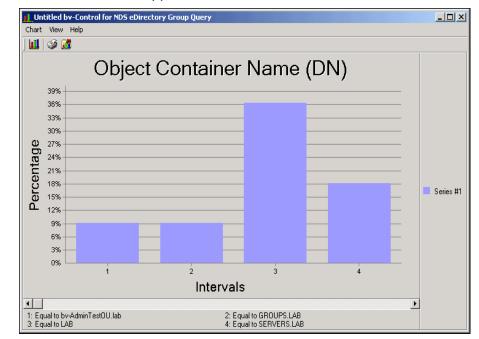
**7** Select the legend check boxes and the position.

Even if you do not select legends now, you can use the chart legend shortcut menu of the completed chart to add them later.

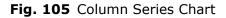
**8** Add a scroll bar, if needed, and enter the number of series displayed on the chart at one time.

A scroll bar is automatically added to charts that have 20 or more series positions.

9 Click Finish.



A series chart appears.



# 4 Scoping

In This Chapter	Understanding Scoping	116
	Setting a Scope	

Understanding Scoping	Scoping is the ability of bv-Control for NDS eDirectory to limit the amount of data collected from your network based on your selections. Scoping works in conjunction with Filter Specifications to make sure that you don't have to wade through extraneous information in Grids, Charts, and Reports.
	The essential difference between the two is that Filtering <i>discards</i> information which has already been collected before it is displayed, while Scoping refrains from collecting the information in the first place. By limiting the amount of information that is collected, you save time in the collection process and also make the subsequent filtering process go faster.
	bv-Control for NDS eDirectory allows you to include any object or combination of objects on your network in a scope you define, including complex combinations involving multiple object types.
	For information on creating Advanced Scopes to use these complex combinations in your queries, please see "Setting Up Advanced Scopes" on page 47. For information on setting up a default scope that will be used for all Queries where no other Scope is specified, please see "To create a default scope" on page 44.
Setting a Scope	When creating a Query, you must specify a scope. When a new Query is created, it will always have the default scope you created assigned to it. If you have never created a default scope, then All Trees in the Credential Database will be used as the Default Scope. For more information on setting up a Default Scope, please see "To create a default scope" on page 44.

When you are creating a new query, you can specify the scope for that query. To do so, select the **Scope** tab of the **Query Builder**.

Query Builder - Untitled by-Control for NDS eDirectory User	Query X
Field Specification Filter Specification Sort Specification Scope	e
	-
Available Item(s)	
Default     Advanced Scopes	
<ul> <li>All Trees in Credentials Database</li> </ul>	
🗄 🛅 Named Scopes	
Add Scope	Configure Dynamic Indexing
Selected Item(s)	
🖓 Default	
Remove Scope Save as Named Scope	Additional Settings
	OK Cancel Help

Fig. 106 Query Builder — Scope Tab

The upper part of the dialog displays the elements you can select to add to the scope. The lower part of the dialog displays the items currently added to the scope. Each of the items in the top part of the window with a plus (+) sign beside it contains subordinate items and can be expanded to show those items. To expand an item, double-click it or click the plus (+) sign to the left of the item. When you expand an item, the contents of the item drop down in a hierarchical list below the item (Fig. 107).

Query Builder - Untitled by-Control for NDS eDirectory User Query	×
Field Specification       Filter Specification       Scope         Available Item(s)       Image: Comparison of the state of the	
Add Scope Configure Dynamic Indexing Selected Item(s) Configure Dynamic Indexing	
Remove Scope     Save as Named Scope     Additional Settings       OK     Cancel     Help	



#### ► To add an item to a scope

- **1** You can add any item in the upper half of the Scope Tab to the scope you are building. To add an item, select it.
- 2 Click **Add Scope** or double-click the item. If you are adding a Named Scope, you can also click **Load Scope** to load the contents of the named scope to the **Selected Items** area. The item is added to the scope area at the bottom of the dialog.

Query Builder - Untitled by-Control for ND5 eDirectory User Query           Field Specification         Filter Specification         Scope	×
Available Item(s)	
Add Scope Configure Dynamic Indexing	
Selected Item(s)	
Remove Scope Save as Named Scope Additional Settings	
OK Cancel Help	

You can add as many items as you choose to the scope, even if the items are of different classes.

Fig. 108 Scope Tab of Query Builder with a Scope Built

You can also add items from different trees, different subtrees or servers.

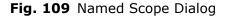
- **•** To delete an item from a scope
  - 1 Select the item you wish to delete from the scope in the **Selected Items** area at the bottom of the **Scope** tab.
  - 2 Click **Remove Scope**. The item is removed from the Scope definition.

#### To save a named scope

- **1** Within the Query Builder, configure a Scope which meets your needs.
- 2 Click the Save Scope button.

The Named Scope dialog appears.

Named Scope	
Select a name for this Named Scope:	OK
•	Cancel
	Help



	3	Type a name for the scope and click <b>OK</b> to save the Named Scope.
		can now reuse this scope in any query using the same data rce.
►	То	modify a named scope
	1	Open the <b>Query Builder</b> dialog, using the same data source used to create the named scope you want to modify.
	2	Click the <b>Scope</b> tab and remove any scope items from the <b>Selected Item(s)</b> list.
	3	Select the desired named scope and click Load Scope.
		The <b>Selected Item(s)</b> list contains the scope items saved in the named scope.
	4	Add or remove the desired scope items to or from the <b>Selected Item(s)</b> list.
	5	Click Save Scope. The Named Scope dialog appears.
	6	Select the named scope you are modifying from the named scope list and click <b>OK</b> .
	7	Click <b>Yes</b> in the confirmation dialog that appears.
		The named scope is modified with the scope items from the <b>Selected Item(s)</b> list. All query definitions containing the named scope are modified with the new scope item selections.
Advanced Scoping	bv-Control for NDS eDirectory allows you to use Advanced Scopes to specify which items on your network are included in a query. The default scope builder allows you to browse your network for items to include in a query's scope. Advanced Scopes allow you to add trees, containers, objects, and so on to specify a scope. In addition, Advanced Scopes allow you to use variables and Scope Files to specify a query's scope. These abilities are especially useful since it can take time to enumerate all the items in the tree when browsing for objects.	
Using ActiveAdmin to specify multiple items in the descriptor	App opt ent Ass file	a can use ActiveAdmin to add multiple objects to the NAL oblication Object Associations attribute via the <b>Import from File</b> ion. This reduces unnecessary overhead of having to browse the ire tree to individually select multiple times to add to the occiations attribute. The Import from File functionality works with is in the .CSV format and must include within its contents a single umn of distinguished names of the NDS objects to be imported. is file should <b>not</b> contain the following:

- Quotation marks wrapping individual object names. If the .CSV file is a product of another BindView report providing the list of objects in their distinguished name format, remove the quotations by using the Find ["]/Replace [] feature available in Notepad.
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- **Header row.** If the .CSV file is a product of another BindView report providing the list of objects in the distinguished name format, the header row should be removed from the .CSV file and the subsequent line should be backspaced to replace the blank row created by removing the header.
- **Duplicate objects listed in the file.** Visually verify that there are no duplicate object names in the .CSV file.

If any of the above conditions exist in the .CSV file, you will receive a failure for the execution of the ActiveAdmin function in the Change Session Log.

#### To create a .CSV file with objects to be imported into the Associations attribute

There are two ways to create a .CSV file. You can manually create one or use the BindView product to do so.

If you choose to manually create the .CSV file that lists distinguished names of objects that you want to import, ensure that there is a hard carriage return at the end of the last line of the .CSV file.

If you choose to use BindView to create the .CSV file, ensure that the header and quotation marks around the distinguished name are manually removed.

- **1** Create a .CSV file that consists of the objects that you want to import into the Associations attribute.
- 2 Run an **NAL Objects** data source query and add the **Associations [List]** field.
- **3** Select the Application object to be modified in the Associations [List] column.
- 4 Right-click and select **Edit**.
- 5 Click Add to select individual objects from the NDS tree or use the Import From File option to select the file you created.
- 6 Click OK.

The status of the query will show in the Task Status window.

**7** Double-click on the query in the Task Status window to display the **Change Session Log**.

The Change Session Log notifies you of the Success or Failure of the action that was just completed. This includes new values added to the NAL Object Associations attribute.

**Note:** This feature is also available for editing multiple NAL Object Associations. Use the **CTRL+key** or **Shift+key** to multiselect the Associations you want to edit. Click Edit and choose from the options in the **Associations** dialog.

Using ActiveAdmin to specify multiple items in the descriptor

# 5 Site Standards

# In This ChapterUnderstanding Site Standards124Using Site Standards124Managing Site Standards125Standards Related Fields133Using Site Standards in Queries135

Understanding Site Standards	bv-Control for NDS eDirectory has the ability to create <i>Site</i> <i>Standards</i> —models of users to which the real users on your network are compared. A Site Standard is the collection of the user settings. You do not have to define every possible field in a Site Standard in order to use the Standard.
	When you use Site Standards capabilities, you include one or more Site Standards fields in a Grid's Query definition, associate a Site Standard with each field, run the grid, and use the grid's results to direct your standards or policy enforcement efforts. The Site Standards associated with each Site Standards field are compared against all the users within the scope of the Query.
	Site Standards fields differ from ordinary fields only in that they are compared to a Site Standard file you create. You must select a Site Standard when you add a Site Standards field to the grid's Query definition. In all other ways, they are used just like ordinary fields as discussed in Chapter 3, "Using bv-Control for NDS eDirectory," on page 49, and in the <i>BindView RMS Console and Information Server</i> <i>User Guide</i> .
	bv-Control for NDS eDirectory comes with pre-defined user standard files for you to import and a number of pre-defined Query Binders that execute Site Standards queries. If you do not import the pre-defined user standard before running the Query Binders, the queries will not return any useful values.
	Most of the effort in using Site Standards goes into defining the Site Standards themselves. You will find that the process of creating a Site Standard is ongoing.
	Credential Databases have no effect on Site Standards Queries. If a user has the privileges to create queries, they can create a query that uses Site Standards.
Using Site Standards	Site Standards are defined using the Site Standards object in the bv-Control for NDS eDirectory container.
	When you use a Site Standard, users within the scope of the Query are compared to a previously defined standard. Site Standards can include selected groups users belong to, login time restrictions, security equivalences, account restrictions, and password restrictions.
Site Standards Fields	<ul><li>Depending on the Site Standards fields included in the query, the following elements can be reported:</li><li>Differences from Standard</li><li>Differ from Standard</li></ul>
<i>"Differences from Standard" Fields</i>	• Differences from Standard fields report omissions. If the object being compared to the standard does not have an element on it that was included in the standard, the results of that comparison are

	reported in this field. The results of the comparison will be a <none found=""> for user attributes that match the site standard.</none>			
"Differ from Standard" Fields	The Differ from Standard field serves as a quick way of checking for the same differences reported in the Differences from Standard field. A query using this field runs faster, given that it does not have to create the form used with the differences field, and it only has to find the first difference rather than every difference.			
	For user attributes, the Differences From Standard field returns <none found=""> that is equivalent to the Differs field returning a NO. Differences field returns a <form> that is equivalent to the Differs Field returning a YES.</form></none>			
Defining User Attributes	You can also specify standards for NDS users. Users are configured by attribute rather than by selecting a model user. Site Standards fields then allow you to see differences from the Site Standard.			
	Once you define a user's attributes in the Site Standard and run a grid, it will show the administrator all users who do not have the "standard" settings for security equivalencies, account restrictions, password restrictions, group memberships, or login time restrictions.			
Managing Site Standards	bv-Control for NDS eDirectory includes tools that allow you to create, import, export, delete, and modify the Site Standards you use.			
Adding a Site Standard	Before a standard can be associated with a Site Standards field, when you are defining a Query, that server standard must appear in the <b>Site Standards</b> object's details pane. Before it can appear in that list, you must add it or import it. You create the standard first, and then associate it with fields you include in a Query.			
	Site standards are maintained using the <b>Site Standards</b> object in the bv-Control for NDS eDirectory container. The existing Site Standards are listed in the <b>Site Standards</b> object's details pane. Site Standards are added to this list and modified using this list. They can be deleted from this list as well.			
	1 Right-click in the details pane and choose <b>Add Site Standard</b> from the context menu.			
	The New Site Standard dialog appears.			
	New Site Standard			
	OK. Cancel			

Fig. 110 New Site Standard Dialog

2 Type a name for the new Site Standard and click OK.The Site Standard Setup dialog appears.

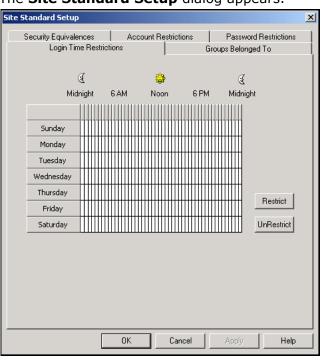


Fig. 111 Site Standard Setup Dialog

**3** Use the tabs on the **Site Standard Setup** dialog to configure the standard. You can configure some or all of the tabs. Click a tab to bring it to the foreground.

**Note:** If you only configure some of the tabs of a Site Standard, you can only use it for queries relating to those tabs. Queries that refer to unconfigured items will be meaningless.

4 Once you configure the settings the way you want them, click **OK** to close the dialog and save the changes.

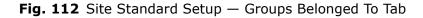
#### To set user standards

This section describes how to set the user preferences. Since the tabs have slight differences, they are described separately.

#### Groups Belonged To Tab 1

# In the **Site Standard Setup** dialog, select the **Groups Belonged To** tab.

Site S	itandard Setup			×
	Security Equivalences   Login Time Restrictions	Account Restrictions	Password Restrictio Groups Belonged To	ns
			Add Delete	



2 Click Add.

The Enter the Group to Add dialog appears.

Enter the Group to Add	×
OK	Cancel

Fig. 113 Enter the Group to Add Dialog

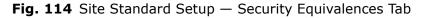
- **3** Type the name of the group to add *or* click the browse button to display a value helper which lets you choose a group to add.
- 4 Click **OK** to close the dialog and save the changes. The **Site Standard Setup** dialog reappears.

Security	Equivalences
Tab	

1

Standard Setup			
Login Time Restrictions		Groups Belonged To	
Security Equivalences	Account Restrictions	Password Restriction	ons
			_
			1
		Add Delete	
	ок. I. с		lelp
	DK Cancel	Apply H	lel

Select the **Security Equivalences** tab.



2 Click Add.

The Enter the Security Equivalence to Add dialog appears.

Enter the Security Equivalence	to Add	×
OK	Cancel	

Fig. 115 Enter the Security Equivalence to Add Dialog

- **3** Type the name of the Security Equivalence to add, *or* click the Browse justice button to display a value helper which lets you choose the object whose security equivalence you want to add.
- 4 Click **OK** to close the dialog and save the changes. The **Site Standard Setup** dialog reappears.

Account Restrictions Tab

1 Select the Account Restrictions ta	ab.
--------------------------------------	-----

5ite Standard Setup	×
Login Time Restrictions Groups Belonged To Security Equivalences Account Restrictions Password Restrictions	
Account Does Not Expire     Unlimited Concurrent Connections     Number of Concurrent Connections:	
Station Restrictions	
Add Delete	
OK Cancel Apply Help	

Fig. 116 Site Standard Setup — Account Restrictions Tab

- 2 Select the Account Does Not Expire or Unlimited Concurrent Connections check boxes to set those options, or enter a maximum number of concurrent connections.
- **3** To add Station Restrictions, click **Add**.

The **Enter the Station Restriction to Add** dialog appears.

Enter the Station Restriction to Add			
		1	
I			
OK	Cancel		

Fig. 117 Enter the Station Restriction to Add Dialog

**4** Type the address of the Station Restriction to add.

Normally, you should enter the IPX/SPX or TCP/IP address of the station, but you can use any network address format supported by your servers.

5 Click **OK** to close the dialog and save the changes. The **Site Standard Setup** dialog reappears.

Password Restrictions Tab

Site Standard Setup	×
Login Time Restrictions Groups Belonged To Security Equivalences Account Restrictions Password Restrictions	
Password Restriction         ✓ Allow Password Changes         ✓ Require Password?         Minimum Password Length:         8         ✓ Require Unique Password?         ✓ Force Password Changes	
Password Change Interval: 60	
OK Cancel Apply Help	

Fig. 118 Site Standard Setup — Password Restrictions Tab

The **Password Restrictions** tab allows you to configure the standards for password restrictions.

2 Select the Allow Password Changes and Require Password? check boxes to set those options as part of your standard.

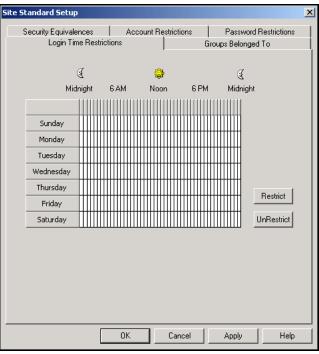
To require a minimum password length, a unique password, force password changes, or to set the number of grace logins allowed, you must first select the **Require Password?** box.

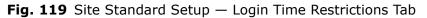
Once you have selected the **Require Password?** box, you can set a **Minimum Password Length** by typing a value in the box. You can also select the **Require Unique Password?**, **Force Password Changes**, and **Unlimited Grace Logins** options by selecting the appropriate check boxes. To set password change intervals and number of grace logins allowed, type these values in the appropriate boxes.

#### **1** Select the **Password Restrictions** tab.

Login Time Restrictions 1 Tab







The **Login Time Restrictions** tab allows you to configure the standards for login time restrictions.

- 2 Click the mouse in the grid area of the dialog and shift-click, control-click, or click and drag to select an area that represents a time or range of times.
- **3** Click **Restrict** or **Unrestrict** to set the standard for times when users can log in.
- 4 Click the button in the top left of the grid (above the **Sunday** button) to select the entire grid. Click any of the buttons at the tops of columns to select the column, or click any of the day buttons at the left of rows to select the entire row.
- **5** Once you make your choices, click **OK** to close the dialog and save the changes. The **Site Standard Settings** dialog will close and the Site Standards detail panel will reappear.

Importing SiteUsing the bv-Control for NDS eDirectory Setup object, you can<br/>import Site Standards files, making them available for use on a<br/>number of machines with a minimum of work.

bv-Control for NDS eDirectory is shipped with several default Site Standards are included in the \**Program Files\BindView\RMS\Control\NDS\Site Standards** folder and are automatically imported into the product.

#### **•** To import a Site Standard

**1** Right-click in the details pane and choose **Import** from the context menu. The **Open** dialog appears.

Open			? ×
Look in: 🧲	Site Standards	- 🗢 主	r 🗐 🕂
	oncurrent Connections.std ssword Requirements.std		
File name:			Open
Files of type:	Site Standard Files (*.std)	•	Cancel
	🗖 Open as read-only		//

Fig. 120 Open Dialog

2 Click the file to select it and click **Open**.

The Site Standard is imported and added to the list of available standards in the details pane.

Exporting Site Standards	In order to share Site Standards you create, you can export Site Standards to .std files that can then be imported into other copies of the BindView RMS Console on other users' systems.			
	To export a site standard			
	<b>1</b> Select the Site Standard you wish to export and right-click it.			
	2 Choose <b>Export</b> from the context menu that appears.			
	<ul> <li>Use the Save As dialog to give a name to the Site Standard you are exporting. Choose a location to save the file and click Save to export the file.</li> </ul>			
Deleting Site Standards	When you no longer need to use a Site Standard, you can right-click it and choose <b>Delete</b> from the context menu to delete it.			
Modifying Site Standards	To make changes to an existing Site Standard, double-click its name in the details pane of the Site Standards object. The <b>Site Standard</b> <b>Setup</b> dialog appears, allowing you to make changes to the Standard. When you make changes to a Standard, any queries that refer to that Standard change also reflect the changes in the Standard.			
	To modify a Site Standard			
	1 Click on the row you wish to modify.			

Name	Version	Description
3C90X.LAN	5.00	3Com EtherLink PCI
ADMSERV.NLM	5.10c	NetWare Web Manager
AFTER311.NLM	4.10a	NetWare 3.11 Compatible NLM Support Module
AIO.NLM	7.00d	NetWare Asynchronous I/O Library
AIOPS2.NLM	1.00	PS/2 Mouse Port Driver
BROKER.NLM	3.00b	NDPS Broker
BSDSOCK.NLM	5.80g	Novell BSDSOCK Module Production_25Jan2002
BSPXCOM.NLM	7.00	BSPXCOM.NLM v7.0.600, Build 154
BTCPCOM.NLM	7.00	BTCPCOM.NLM v7.0.600, Build 154
BTRIEVE.NLM	7.51	BTRIEVE.NLM v7.51.001
BVSIM4.NLM	2.00	BindView RMS BVSIM4 NLM
CALNLM32.NLM	5.05h	NetWare NWCalls Runtime Library
CCS.NLM	3.20	Controlled Cryptography Services from Novell, Inc.
CDBE.NLM	5.10b	NetWare Configuration DB Engine
CLIB.NLM	5.90e	Novell Standard C Runtime Library for NLMs [opt
CLNNLM32.NLM	5.05h	NetWare NWClient Runtime Library
CLXNLM32.NLM	5.05h	NetWare NWCLX Runtime Library
CONNMGR.NLM	5.11	NetWare Connection Manager NLM
CPUCHECK.NLM	1.02	NetWare Processor Checking Utility
CRON.NLM	1.50	NetWare Scheduler
CSL.NLM	2.06b	NetWare Call Support Layer For NetWare
4		
3C90X.LAN 5.00	)  3Com	EtherLink PCI Update
		Delete Import From Server

The selected items appear in the display bar of the dialog.

Fig. 121 Site Standard Setup Dialog

- **2** Click on the designated cells in the display bar to edit the values.
- **3** Click **Update** at the right of the display bar to activate the changes.
- 4 Click **OK** to save your changes.

You can also rename a Standard by right-clicking its name in the details pane and choosing **Rename**.

Standards Related	Each of the components that make up a user standard has two to
Fields	three fields associated with it. A specific field is associated with one

of the element lists that make up the Site Standard. That list is displayed in one of the tabs in the **Site Standards Setup** dialog.

Table 4         Site Standards Dialog Tabs and Associated
Standards Fields (Part 1 of 2)

Site Standards Setup Tab	Data Source(s)	Attribute Fields
Account Restrictions	User; User Template	Account Never Expires: Differences From Standard
	User; User Template	Maximum Connections: Differences From Standard
	User; User Template	Station Restrictions: Differences From Standard
All	User; User Template	Differences From Standard
	User; User Template	Differs From Standard?
Groups Belonged To	User; User Template	Groups Belonged To: Differences From Standard
Login Time Restrictions	User; User Template	Time Restrictions: Differences From Standard

Site Standards Setup Tab	Data Source(s)	Attribute Fields
Password Restrictions	User; User Template	Grace Logins Allowed: Differences From Standard
	User; User Template	Password Can Be Changed: Differences From Standard
	User; User Template	Password Change Interval: Differences From Standard
	User; User Template	Password Changes Are Forced: Differences From Standard
	User; User Template	Password Minimum Length: Differences From Standard
	User; User Template	Password Must Be Unique: Differences From Standard
	User; User Template	Password Required: Differences From Standard
Security Equivalences	User; User Template	Security Equivalences: Differences From Standard?

Table 4 Site Standards Dialog Tabs and AssociatedStandards Fields (Part 2 of 2)

In a grid's dataset that includes Standards fields, a row represents an individual user (for User Fields).

Using Site Standards in Queries		Once you define the Site Standards, you use them in queries to analyze your network. User standards data is kept in the <b>User</b> and <b>User Templates</b> data sources.		
	►	To define queries using site standards fields		
		When you define a user standard query, you should use the following steps:		
		1	Select the <b>Data Source</b> for a Site Standard query.	
		2	Add the Site Standards fields, associating a Site Standard with each Site Standard field. You can associate different Site Standards with each Site Standard field.	
		3	Run the query.	

	4 Interpret the results of the Site Standard query using a grid, a chart, or a report.
	The same standard does not have to be selected for each field in the Query. The Site Standard selected for a field will appear next to the field name in the Query Builder's <b>Selected Fields</b> list. The Site Standard selected will also appear in the column heading of a grid's dataset.
	When you add several fields to a query at once, Site Standards are associated with those fields in the order that the fields were added. You should be careful when selecting several fields at once if the same Site Standard is not going to be used for each field. You should check the Standards you have associated with the field in the Query Builder's Selected Fields list, and again in the Query's grid dataset. For more information on creating and using queries, please see "Defining a Query" on page 52, and the <i>BindView RMS</i> <i>Console and Information Server User Guide</i> .
Interpreting the Results of a Site Standards Query	After you have defined the Query, you run it exactly like any other query. If you run it as a grid or a report, the results include a column for each of the fields included in the Query.
	A cell in a column of a dataset can contain the following values:
	• [Form]
	• [Yes]
	• [Specific Value]
	For a user attribute field, a [Form] result is returned for each attribute reported, regardless of whether differences were actually found. The form lists the differences, if any, that were found during a Site Standards query. The [Form] result can be opened to display a form. That form contains a row for each difference found. The columns describe the differences between the element that was found and the same element in the standard.
	Once you have your Site Standards report, you can use it to determine the actions, if any, that will need to be taken to bring your network into conformance with your needs and preferences. For User Site Standards, you can create and run another grid query which contains the relevant fields and use ActiveAdmin to make changes to bring your users and user templates into compliance.

# Α

# **bv-Count for NDS eDirectory Utility**

#### Introduction

The bv-Count® for NDS® eDirectory<sup>™</sup> utility is provided as a simple, quick method for you to count the number of NDS objects in a tree you select. You can choose to count all objects or only objects of a specific type. This utility is an add-on to bv-Control for NDS eDirectory.

#### **•** To use bv-Count for NDS eDirectory

- 1 Run the BindView RMS Console and open the bv-Control for NDS eDirectory container. Inside it, open the bv-Count for NDS eDirectory container.
- **2** Double-click on the bv-Count for NDS eDirectory Utility in the details pane. The bv-Count for NDS eDirectory Utility dialog appears.

by-Count for NDS eDirectory	<u>- 0 ×</u>
File Options Help	
Search Criteria	Search
Tree PMDEVNW5	
Search Subtree [Root]	Close
Search For BindView License Objects	<u>H</u> elp
Licensing	
Object Type Co	unt
Total Objects Found	1:
Ready	NUM

Fig. 122 bv-Count for NDS eDirectory Utility Dialog

**3** Click the browse button to specify the part of your current tree that the utility should search.

The **Select Container** dialog appears.

Select Container	×
(Root)	
OK	Cancel

Fig. 123 Select Container Dialog

- **4** Double-click on items in the list to expand them and show their contents.
- **5** Single-click an item and click **OK** to close the dialog and select the level below which the utility should search.
- 6 Select the object type that the utility should search for from the **Search For** list.
- **7** Click **Search** when you're ready for the utility to begin its search.

The utility counts the objects of the type you specified and displays its results in the dialog.

by-Count for NDS	eDirectory	<u>- 🗆 ×</u>
File Options Help		
Search Criteria — Iree Search Subtree	PMDEVNW5	<u>S</u> earch <u>C</u> lose
Search For		Help
Licensing Details		
Object Type User	Cc	<u>unt</u> 3
	Total Objects Foun	d:3
ı Ready	[	NUM



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**8** For more information about the objects in your tree, click the **Details** tab and double-click to expand the containers.

by-Count for NDS eDirectory	
File Options Help	
Search Criteria Iree PMDEVNW5  Search Subtree D=ZENTECH Search For Users	<u>S</u> earch <u>C</u> lose <u>H</u> elp
Licensing Details	1
Containers Count □ "聲 0=ZENTECH 止 "聲 0U=Shadow.0=ZENTE └ "聲 0U=Dark.0U=Shad	3322
Total Objects Four	nd:3
r Ready	NUM



- **9** To save the results, choose **Save As** from the **File** menu and specify a name and location where the file should be saved.
- **10** When you're ready to quit the utility, click **Close** or choose **Exit** from the **File** menu.

Introduction

# Secondary Windows 2000 Installation

#### Introduction

When installing bv-Control® for NDS® eDirectory<sup>m</sup> on a secondary Windows® 2000 Domain Controller that has Active Directory® replicated to it, a **Replication Wait Dialog** appears during the installation process.

X
_

Fig. 126 Replication Wait Dialog

The **Replication Wait Dialog** appears because the **BV Console Users** and **BV Console Admin** groups are installed on the primary Domain Controller, and the BindView RMS® Console cannot be launched on the secondary Domain Controller until these groups are replicated through Active Directory®.

If you choose not to click the **Cancel** button during the installation process, the dialog will disappear automatically after the groups are replicated. After the replication occurs, the installation process continues and bv-Control for NDS eDirectory will immediately be ready for use after installation.

If you choose to click the **Cancel** button, the dialog will disappear and the installation process will continue. If you launch the BindView RMS Console before the groups have been replicated, you will receive an "Initial Failed" message in the MMC Console pane and the product will be unusable. If this occurs, simply close MMC and wait for the groups to replicate. Once replication occurs, you will be able to launch the Console.

#### To verify replication

You can verify if the groups have been replicated by opening up the **BindView Properties** dialog. You can get to the **BindView Properties** dialog using the following steps:

- 1 From the computer **Desktop**, right-click **My Computer**.
- 2 Select Manage.

B: Secondary Windows 2000 Installation 141

This will launch the **Computer Management Console**.

- **3** Under the Share Folders container, expand the **Shares** folder.
- **4** From the details pane, right-click on the **BindView** share.
- 5 Select **Properties**.

The **BindView Properties** dialog appears (Fig. 127).

6 Select the **Share Permissions** tab.

Bind¥iew	Properties			? ×
General	Share Permissions	Security		
🚮 B'		Administrators)		Add <u>R</u> emove
Permis: Full Cha Rea	Control nge		Allow V V V	Deny
	[	ОК	Cancel	Арру

Fig. 127 BindView Properties Dialog

From Fig. 127, you can see that the **BV Console Users** group is already replicated, but the **BV Console Admins** group is not. The string of numbers and dashes under the **BV Console Users** group is a placeholder representing the **BV Console Admins** group waiting to replicate.

#### ► To force replication

Instead of waiting on the Active Directory replication to occur on its own (which can take up to 45 minutes), you can manually force a replication.

- 1 From the Windows **Start** menu, go to **Programs**.
- 2 Select Administrative Tools.
- 3 Select AD Sites and Service.

Image: Source window Help         Action Yew         Action Yew         Image: Active Directory Sites and Services [I-caribou- Sites         Image: Active Directory Sites and Services [I-caribou- Sites         Image: Berlaut-First-Site-Name         Image: Servers         Image: Berlaut-First-Site Name         Image: Berlaut-First-Site Transports         Image: Berlaut-First-Site Transports <tr< th=""><th>🚮 AD Sites and Services</th><th></th><th></th><th></th><th>- D ×</th></tr<>	🚮 AD Sites and Services				- D ×
Tree       Name       From Server       From Site       Type         Active Directory Sites and Services [I-caribou-       Image: Sites       I	🙀 Console Window Help			_ <del>8</del> ×	
Active Directory Sites and Services [I-carbou- ]       Image: Connection of the services of the servic	Action View $4 \Leftrightarrow 3 \Leftrightarrow 1 \bigoplus 1$	f 🗗 🗟 🛛 🕄			
Sites     Default-First-Site-Name     Default-First-Site-Name     Default-First-Site-Name     Default-First-Site-Name     Default-First-SiteName     De	Tree				Туре
	Stes     Jofault-First-Site-Name     Jofault-First-Site-Name     Jofault-First-Site-Name     Jorden Settings     Jorden Settings		L-BREMEN-W2KAS	Default-First-Sit	Connectio
	•	4			

The AD Sites and Services Console appears.

Fig. 128 AD Sites and Services Console

- 4 Navigate to the **NTDS Settings** on the secondary Domain Controller where bv-Control for NetWare and NDS was installed (shown in Fig. 128).
- **5** From the details pane, right-click on the connection object.
- 6 Choose **Replicate Now**.

*Note:* You will be notified if the replication was successful.

Introduction

# Glossary

ActiveAdmin	Feature that allows a user to delete resource objects, historical datasets, or session logs; or to modify resource object attributes.
advanced scope	Named collections of scope information that you can create before they are needed and then use later in queries.
attributes	Characteristics of a resource object.
auditing	Reporting feature that enables you to generate reports against data sources.
audit log file	Lists the selected object audit events that occur during an audit.
container	Item appearing in the a tree that holds objects or other containers.
credential database	Collection of information stored on the Information Server that provides access rights to resource objects.
data source	Group of fields related to resource objects with similar attributes, or properties.
default scope	A scope than ensures that only relevant objects will be queried.
eDirectory	A Novell directory service that stores and manages objects such as users, applications, network devices, and data.
field	Attributes, or properties, of the selected data source.
named scope	Group of saved scope items associated with a specific data source and Information Server.
NDS	A Novell information name service that organizes network resources—users, groups, printers, servers, volumes, and other physical network devices—into a hierarchical tree structure.
query	Request for information from selected resource objects.
query binder	Item used to store and manage query-related information.
scope	Part of the query definition that narrows the range of possible resource objects to be queried, thereby reducing the run time of the query.
server	The physical hardware device or machine that runs the network operating system.
site standards	Comparison of users against a standard user configuration.

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