

for Windows

Interactive Management and Reporting for Active Directory and Windows File Systems

User Guide

Visual Click Software, Inc.

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Patents

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Documentation Conventions

Special information in this manual is presented using the following conventions:

- **Bold** text indicates commands, command-line options, and interface controls, such as the names of icons, menus, menu items, buttons, check boxes, and tabs.
- · Italic text indicates variables that must be replaced with a value. It also indicates book titles and emphasized terms.
- Monospace text indicates data to enter, filenames, and code examples.

NOTE:	Provides information that emphasizes or supplements important points in the main text.
IMPORTANT:	Provides information essential to the completion of a task. Do not disregard an important note.
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Chapter 1 Introduction to DSRAZOR

DSRAZOR is a powerful application that allows you to create and customize your own applets. The interactive applets that DSRAZOR for Windows helps you design make it easier to manage your Active Directory (AD) and Windows file servers. You can use any of the predefined applets, or you can customize your own.

Visual Click Software provides you, the Windows Administrator, with a better method for managing AD and Windows file servers. An authoring tool, DSRAZOR allows you to create Active Directory and network management applications called **applets**. You do not need to know programming or perform any scripting. Instead, DSRAZOR uses drag-and-drop controls that you arrange within a familiar tree structure to create applets that perform various Windows-based tasks.

Included with DSRAZOR are many pre-designed applets that perform such tasks as listing expired or locked user accounts. You can also modify these pre-designed applets.

How DSRAZOR Can Help You

There are many ways you can save time and money when you use Visual Click Software's DSRAZOR for Windows.

Reduces Training Costs

Your Helpdesk operators are your first line to your customers (your users). Give the operators the tools they need to do their job without making more work for you.

DSRAZOR also keeps training requirements for your Helpdesk personnel to a minimum, as they do not have to learn the intricacies of Active Directory Users and Computers.

Increases Your Ability to Secure Your Network

Your administrative staff is already busy enough. Increase your time to attend to truly urgent activities when you automate your routine data collection and maintenance needs. DSRAZOR applets can be saved as EXE, which can be automated with a scheduler. When you automate your manual processes with DSRAZOR, your effectiveness is improved. The following are some examples of tasks you can perform with DSRAZOR for Windows:

- Find all users with any file system rights to your sensitive directories
- Find and delete old accounts, including home directories and Exchange accounts

Eliminates the Need for Programmers to Develop Custom Active Directory Applications

Your custom Active Directory programming needs can be satisfied with DSRAZOR for Windows. There is no Visual Basic or ODBC programming to learn—only point and click. Start with one of the many applets from our Console, or build your own with only point-and-click interaction.

DSRAZOR Online Demos

The Visual Click Software web site offers many graphical Flash demos that provide step-by-step tours of the DSRAZOR product. Although these demos are geared towarour DSRAZOR for eDirectory/NDS and NetWare product, they provide valuable instructions on performing a variety of tasks, such as customizing the **Designer** and the **Console**, which are also relevant to DSRAZOR for Windows.

You can access the Visual Click Software demos at the following link:

http://www.visualclick.com/dsrazor_demos/

You can view the Visual Click Software demos using either of the following:

- Macromedia Flash-enabled browser (for example, Internet Explorer 4.0 or later, Netscape Navigator 4.06, or Netscape Navigator 6.0 or later) OR
- Shockwave Flash player (version 4.0 or later)

The demos can be viewed on any of the following platforms:

- Microsoft Windows 95 or later
- Macintosh
- Linux
- Sun Solaris
- Other UNIX platforms (HP-UX or IBM AIX)
- Pocket PC

Create My Solution

Visual Click Software provides a free service called **Create My Solution**. Through this service, you can request custom Helpdesk applications for Active Directory and Windows. While we will do our best to serve you, some requests will remain beyond the abilities of the DSRAZOR for Windows product.

Use the following email link to send your request to us. If our DSRAZOR for Windows product can currently service your request, you will usually receive an applet within 24 hours. If our product requires modification to enable your request, we will submit a feature request to Development for future consideration. If we add the new feature to DSRAZOR, we will notify you.

Email your request to: <u>createmysolution@visualclick.com</u> and Visual Click's software engineers will do the rest.

How DSRAZOR Works

DSRAZOR helps Active Directory and Windows Administrators manage your systems the way you want to manage them. Active Directory has many powerful features that give you control over virtually every aspect of Windows. Learning how to effectively manage Active Directory can be a daunting task. DSRAZOR makes the power of Windows available to Administrators in a simple user interface.

DSRAZOR allows you to more easily manage:

- Active Directory security
- Users, computers, groups, and other objects
- Active Directory and Windows data

You can choose among the selection of Windows applets that DSRAZOR provides with the product, and you can create your own. All DSRAZOR applications are created as files that have a .DSR extension. You can run an application as a command line input to the DSRAZOR executable DSRRUN.EXE, or you can associate .DSR files with DSRRUN.EXE and then double-click the filename or put it on your desktop as a shortcut.

There are three parts to DSRAZOR. Which part you decide to use depends on what kind of task you want to perform. Use the **Console** if you want to use any of the pre-designed applets. If you want to design your own applets, use the **Designer**. Use the **Viewer** to execute each of the applets on an individual basis.

Controlling Your Helpdesk

If you have been using Active Directory Users and Computers (ADUC) as your primary Helpdesk tool, you know its many weaknesses. DSRAZOR helps you control how your Helpdesk users interact with your Active Directory data.

With DSRAZOR for Windows, you no longer need to provide your users with some minimal training on ADUC usage to prevent damage before it occurs, nor must you rely on unsupported shareware that is not customizable to your exact needs. DSRAZOR enables you to design your own Helpdesk tools and customize them to your particular needs. Designing your own Helpdesk applets ensures that you create applets that reduce training costs and security exposures.

Included in the **Console** are several example Helpdesk applets that allow you to:

- Manage group membership with drag-and-drop simplicity
- Pass almost any AD attribute, including the user's e-mail address, as a parameter to an EXE file
- List all users
- Find users by name or partial name anywhere in an AD Tree and manage their details
- Manage users:
 - change passwords
 - reset intruder lockout settings
- Update all the User accounts in a specified Container or Domain Root

DSRAZOR for Windows enables you to create an applet that your Helpdesk or other staff can use to perform Windows functions, such as those listed above. Saving the applet as an **.EXE** file creates a stand-alone application that can be used on workstations that do not have DSRAZOR installed.

IMPORTANT: To save an applet as an application (*.EXE), you **must** have a token file (purchased or evaluation). When DSRAZOR prompts you to select a token, click **OK** to close the prompt, highlight the token you want in the Select your Token file(s) dialog, and click **Open**.

After you save your **. EXE** file, you are notified to make sure that **DLL** file(s) are copied to the same directory as your **.EXE** file.

The two methods for saving an applet as an **.ExE** file are as follows:

• Clicking the **.EXE** icon from the toolbar



• Selecting Save as EXE from the File menu.

Once you have saved an applet as an **.EXE** file, you can distribute it—along with the supporting DLLs—to your Helpdesk staff.

Assessing Active Directory/NTFS Security

Reduce your security exposures with one of DSRAZOR's many applets. Each of these applets is easily customizable to your site.

You can:

- Document assigned file system rights for users and groups on **all** NTFS volumes
- Find all objects that have trustees with either full control or write privileges
- Find all users:
 - who have never logged in
 - whose last login is greater than 30 days ago
 - not requiring a password
 - with an expired password
 - whose account is disabled by intruder lockout
 - with login hours defined

Documenting Active Directory/NTFS

Through the **Console**, DSRAZOR provides applets that help you document your Active Directory data. Now, you can easily create the following reports:

- Users and their site-specific data (e.g., fields you use)
- User groups and their members (by full name) and site specific data
- Your container structure

For any Active Directory object, you can create reports that include:

- Explicit file system assignments
- Data from custom Active Directory schema extensions
- Last modification date and time
- Object creation time

You can also create exception reports based on rules you create. For example, you can create reports based on the following:

- Users who have never logged in
- Groups with no members
- Output reports with headers and page numbering. You can also save reports in comma-delimited, quote-separated form for import into the report processor you choose.

Easing User Maintenance

DSRAZOR provides several applets that ease your Active Directory user maintenance by eliminating redundant operations. You can extend maintenance to practically any Active Directory object. You can also do full reporting and querying with these applets.

- Use **Smart Delete** to remove selected users, including their home directories and Exchange mailboxes
- Create a Helpdesk to manage selected containers (reset passwords, intruder lockouts, and so forth)
- Search for users by name and/or attribute values, including custom rules
- Add multiple users to a group

Producing Your Own Toolkit

When you need a "just-my-size" applet, you can design and build it yourself with DSRAZOR's drag-and-drop applet designer. The **Console** presents you with several useful ad hoc applets. You may want to use these or build your own.

- Include your company's logo (e.g., a bitmap graphic) in all your applications
- Design a simple software metering activity tracker (e.g., logging usage only)
- Log activities, such as who has a file open
- View users along their full names, last login, and sort on any column
- Find all users using disk space on a selected volume, how much they use, and how much disk space is in use by the file server itself
- Query and update custom Active Directory schema extensions
- Watch connection statistics in real time (bytes read/written, add Active Directory attributes)

Technical Specifications

- DSRRUN. EXE runs on any Windows 9x/NT or later workstation.
- DSRAZOR for Windows is designed to operate with a network-connected workstation or server.
- The entire product requires 20MB of disk space (including manuals; actual product is 5MB) and 32MB of RAM.

Trial Mode

Without a valid token, or license, any list you create with DSRAZOR is limited to the first three items. The list will include an indication that it is truncated.

Designer

The **Designer** module (**DSRDES.EXE**) requires a Windows-based workstation. The **Designer** will operate with or without a network present, except you will not be able to save your applet as an executable without a network.

The **Designer** includes some wizards (assistants) that help in selections that require a network connection to operate.

Runtime Module

The DSRAZOR **Runtime** module (DSRRUN.EXE) requires a Windows-based workstation and a valid token.

To view the **Runtime** module's build (or version level), simply run any applet (e.g., "dsrrun applet filename") and click on the main window's caption bar icon in the upper left corner, then click About this Solution.

Summary

Visual Click Software's DSRAZOR is the ideal tool for the Windows Administrator who wants to better manage Active Directory and Windows. DSRAZOR comes complete with many pre-designed management applets that enable the Administrator to take full advantage of the inherent power of Windows and Active Directory without having to master Active Directory Users and Computers (ADUC). The DSRAZOR **Console** module gives the Administrator full access to DSRAZOR's many applets.

Visual Click's designers have tried to provide applets to fit virtually every need a typical Administrator may have. However, networks continue to be varied in configuration—each requiring different management techniques and their Administrators requiring different results. No one network applet fits all. Therefore, DSRAZOR for Windows also provides an easy-to-use graphical interface that Administrators can use to create their own applets. The **Designer** module lets Administrators customize existing applets or create their own.

Whether you use only the pre-defined applets or choose to create your own, DSRAZOR is an excellent tool to help you manage your Active Directory and Windows networks.

Introduction to DSRAZOR

Chapter 2 Installing DSRAZOR

This chapter describes how to install, update, and uninstall DSRAZOR for Windows. This chapter also explains tokens and how to install them.

Installing DSRAZOR

With DSRAZOR installed, you can use it to make your Active Directory and Windows management tasks easier.

To install DSRAZOR:

 Download the trial version of the DSRAZOR installation file (DSRAZOR_INSTALL.EXE) from Visual Click's web site at <u>http://www.visualclick.com</u> and run it.

The **Welcome** dialog box is displayed.

2 Click Next.

The License Agreement dialog box is displayed.

- Click Yes to accept the license agreement.The Choose a Destination Folder dialog box is displayed.
- 4 Choose a folder in which to install DSRAZOR, and click Next.The Select Program Folder dialog box is displayed.
- 5 Select a program folder for the Start menu, and click Next. The Installation Wizard begins copying and installing. The Setup Finished dialog box is displayed.
- 6 Click **Finish**.

NOTE: Although the trial version is fully functional, it will only permit created reports to provide the first three results of any created report. To get full functionality from DSRAZOR, you will need a token. See <u>"About Tokens" on page 15</u> for how to install a token.

Installing DSRAZOR on Separate Workstations

You can install DSRAZOR for Windows to a single server path on your network for use by separate workstations. This enables you to access your applets from different workstations. From each workstation that is using DSRAZOR from the shared directory, you must re-install DSRAZOR to the shared directory (to apply certain required Registry settings).

To install DSRAZOR from a workstation to run from a shared network location:

- 1 From the uninstalled workstation, make sure that DSRAZOR_INSTALL.EXE is in the directory where you installed DSRAZOR.
- 2 Run DSRAZOR_INSTALL.EXE. The InstallShield Wizard displays the Welcome page.
- **3** Select **Modify** and click **Next**.
- 4 Respond to the dialogs as required.

Updating DSRAZOR

Updating DSRAZOR does not overwrite existing applets, except for **DEFAULTW.DSR** (the **Console**). If you create an applet and it happens to have the same filename as a new applet in the update, the new applet will not be installed. To see if any new applets included in the update were not installed, refer to <u>DSRAZOR for Windows Ready-to-Run Applets</u>.

How to update DSRAZOR:

1 In your browser go to <u>http://www.visualclick.com</u> and click **Download Free Trial**.

The Download Free Trial page is displayed.

- Download the DSRAZOR for Windows Installation program (DSRAZOR_INSTALL.EXE) and run it.
 The InstallShield Wizard displays the Welcome page.
- **3** Select **Modify** and click **Next**.
- 4 Respond to the dialogs as required.

Uninstalling DSRAZOR

It is easy to uninstall DSRAZOR if you need to.

How to uninstall DSRAZOR:

1 Run the DSRAZOR for Windows Installation program (DSRAZOR_INSTALL.EXE).

The InstallShield Wizard displays the Welcome page.

- 2 Select **Remove** and click **Next**.
- 3 If you created new applets (*.DSR files), they were not deleted by the InstallShield Wizard. You must delete the files and the DSRAZOR installation directory manually.

About Tokens

A token file is a small text file with a **.TKN** extension that authorizes the full use of any file with a DSRAZOR applet extension (***.DSR**). You do not need a token to design or modify applets in the **Designer**.

Installing Tokens

To install a token file, copy it to the same directory where you installed DSRAZOR. If the applet is not in the same directory where you installed DSRAZOR, the copy of the token file must also be in the directory of the applet you are running.

Why You Need Tokens

To gain full functionality of DSRAZOR for Windows, you must have a token file.

Tokens designate the number of user objects they will authorize. Your token must designate at least the total number of user objects in your Active Directory Domain or in your Container.

If a trial mode message is displayed, then DSRAZOR does not have a current or proper token. If DSRAZOR is in trial mode, only the first three items of any applet's ListView will be shown.

Types of Tokens

The DSRAZOR token file is a small text file with a **.TKN** extension that authorizes DSRAZOR's use. The token designates the number of user objects authorized.

There are several token types:

- **Evaluation**. This type of token authorizes use of DSRAZOR on an unlimited number of Windows user objects in an unlimited number of Active Directory Domains for a specific period of time, after which, all functions revert to the trial mode.
- **Subscription or Rental**. This type of token authorizes use of DSRAZOR on a specific number of Windows user objects in a specific Active Directory Domain or a specific container within an Active Directory Domain for a specific period of time, after which, all functions revert to the trial mode.
- **Perpetual**. This type of token authorizes use of DSRAZOR on a specific number of Windows user objects in a specific Active Directory Domain or a specific container within an Active Directory Domain for an

unlimited amount of time. Typically, this style of token includes the additional ability to install maintenance and upgrade versions of DSRAZOR that are made available prior to the last date of maintenance specified by the token. Access to future maintenance and upgrade versions of DSRAZOR beyond the last date of maintenance requires renewing your maintenance each year to receive new tokens.

WARNING: Renaming or editing a token file will invalidate it.

CAUTION: Do not install a DSRAZOR update with a build date subsequent to the expiration date of the token. Installing an update or enhancement of DSRAZOR after the token's build date will place DSRAZOR in Trial Mode.

Installing DSRAZOR

Chapter 3 Getting Started

Using and Managing Applets

A DSRAZOR applet can be launched in a number of ways:

- from the **Console** (page 21)
- from the Viewer (page 23)
- by double-clicking it in Windows Explorer
- from the command line

Although DSRAZOR may be installed in and run from a single directory on the network, you **must** have the program installed on your workstation to launch **.DSR** files. You can save an applet as an **.EXE** to launch it from a workstation that does **not** have DSRAZOR installed (see <u>"Turning DSR Applets into Stand-alone Executables" on page 39</u>).

Applets with very large outputs run faster and smoother if they are output directly to a file. Applets with very large outputs can run for long periods, gathering information. A DSRAZOR applet that is in the process of outputting data to a file opens a separate Windows application that is displayed on the Windows taskbar. DSRAZOR will provide no other indication that a compilation program is running.

While running an applet, right-click over any ListView or TreeView within an applet to view a menu with options to save the output. A list can be saved to a comma-delimited file or to a print-ready text report (with a header and page numbering). Comma-delimited files are saved with quotation marks around each item and a comma as the separator. Applets are created and edited in the **Designer**. Open the applets pre-fabricated with DSRAZOR and use their structure as a guide to using them in your own applets, or simply modify the pre-fabricated applets to suit your needs.

For information on each pre-fabricated applet, refer to <u>DSRAZOR for</u> <u>Windows Ready-to-Run Applets</u>.

If you modify a pre-fabricated applet, consider saving it under a different name—a name that is unique to your uses. That way, you will still have the original applet intact if you need it in the future. If an applet that you create or modify has the same name as a pre-fabricated applet, the pre-fabricated applet will **not** be installed or updated when DSRAZOR is updated.

See <u>"Elements of Applets" on page 30</u> for more information on applets.

To launch an applet from the command line, type the following command:

path\dsrazor\dsrrun path\applet.dsr

where path dsrazor is the path to where you installed DSRAZOR and *applet* is the **.DSR** filename of the applet you want to launch. Also, make sure that your current tokens are in the same directory as the applet.

NOTE: You can also launch an applet from Windows Explorer (by double-clicking it) or using a shortcut to it on your Desktop or in your **Start** menu.

To open an applet in the **Designer** from the command line, type the following command:

path\dsrazor\dsrdes path\applet.dsr

where $path \mid dsrazor \mid$ is the path to where you installed DSRAZOR and *applet* is the **.DSR** filename of the applet you want to launch. Also, make sure that your current tokens are in the same directory as the applet.

About the Console

The **Console** is a good place to start if you want to get started running and modifying DSRAZOR's many pre-fabricated applets. For an explanation of each pre-fabricated applet, refer to <u>DSRAZOR for Windows Ready-to-Run</u><u>Applets</u>.

Figure 3-1

🍇 Console [DSRAZOR]				
Visual DS Click		eract, Query and Manage		
www.visualclick.com		4.3c		
More about the Console	 View Online Demos Double Click to Run Right Click to Edit 			
Assess AD/NTFS Security				
Query and Search AD				
HelpDesk Examples				
AD User Maintenance				
Examine Servers/Disks				
Jaunch Designer				
Request Quote				
@ Exit				

To launch the Console:

- 1 Click on the Windows **Start** menu.
- 2 Select Programs | DSRAZOR | Console.

The **Console** is displayed.

The Console's main menu displays several selections down the left side. This list represents applet groups.

Each applet group contains several applets designed by Visual Click Software developers that perform various management functions. To launch an applet from the **Console**:

- Click the menu category in the left column where the applet is listed. The applets available from the selected menu are displayed to the right of the menu name.
- 2 Double-click the applet in the right column to be launched.The Console also allows you to customize the pre-fabricated applets to fit your network requirements.

To open an applet in the **Designer** from the **Console**:

1 Right-click the applet in the **Console**.

The selected applet is opened in the **Designer**.

IMPORTANT: The **Console** is itself a DSRAZOR applet with the filename **DEFAULTW.DSR**. If you create a console applet based on the **Console** (for example, to display applets you have built), you must **not** use the filename syntax **DEFAULT*.DSR**, as it will interfere with the **Console**.
About the Viewer

The DSRAZOR **Viewer** allows you the convenience of viewing all your applets at once, like the DSRAZOR **Console**, but the **Viewer** offers more choices of how you can display your applets. Whereas the **Console** only displays the pre-fabricated applets or the applets you have edited it to display, the **Viewer** displays all applets in the DSRAZOR installation directory or any other directory you choose. With the **Viewer**, you also have the option of filtering which applets are displayed according to the number of windows they include (see <u>"About Windows" on page 31</u>), the types of services they use (see <u>"About Services" on page 36</u>), and whether or not they have comments.

From the Viewer, you can launch applets or open them in the Designer.

- To launch an applet from the **Viewer**, double-click the applet's filename.
- To open an applet in the **Designer** from the **Viewer**, right-click the applet's filename in the **Viewer**.

Viewer [DSRAZOR]					
<u>File Edit Options H</u> elp					
0 🔌 🗈 🏛 5	7 😼 🖓	• E			
C:\Program Files\Visual Click Soft	tware, Inc\DSRAZOF	3			
Name	Date Modified	First Window Title	Windows	Comment	<u> </u>
🗀					
📄 NLM 3					
📄 NLM 4					
📄 NLM 5					
NLM 6					
	Fri, Jun 24, 2005	Clean up User Accounts	9	Finds accounts that are expired o	
	Mon, Jul 11, 2005	Account Cleanup	7	This applet allows you to see acc	
LL A C	Mon, Jul 11, 2005	Document Account Securit	2	Lists Users (within a selected Con	
	Fri, Feb 03, 2006	Add Exchange Mailbox	3	Add Exchange Mailbox to existing	
11	Tue, Oct 11, 2005	Find Active Directory Objec	3	This applet will scan selected Act	
-	Tue, Oct 11, 2005	Find Active Directory Objec	3	This applet will scan selected Act	
H	Tue, Nov 15, 2005	Find Active Directory Objec	3	This applet will scan selected Act	
LL A C	Tue, Nov 15, 2005	Find Active Directory Objec	3	This applet will scan selected Act	
	Thu, Jun 30, 2005	Find User accounts that ha	3	This applet finds user accounts th	
	Tue, Jul 12, 2005	Begin Helpdesk View in cu	1	This applet shows how to create	an applet that only shows a help
	Wed, Mar 15, 2006	Begin Helpdesk View in cu	1		
	Mon, Jul 11, 2005	Find All User Connections	2	Lists all Users in a Container that	
LL A C	Mon, Jul 11, 2005	Achive Login Scripts from s	1	Archives login scripts from Users,	
	Mon, Jun 27, 2005	Document User Account S	3	This applet documents security de	
	Mon, Jul 11, 2005	Select Tree for Search for	3	Will search selected Tree for all u	sers who have access to SYS:5
aux cural der	Fri Mar 24, 2006	Create Lisers + Bequire Sn	2		
355 of 355 files shown					

Figure 3-2

If you change any of the following settings, DSRAZOR saves your changes in a .INI file for the next time you run the **Viewer**.

- You can sort the applets by column (for example, Date Modified, First Window Title, Windows, Comment) by clicking the desired column heading.
- You can resize a column by moving your cursor over the dividing line between column headings until the double-arrow is displayed, holding down your left mouse button, dragging the cursor until you have reached the desired width, and then releasing the mouse button.
- You can reorder the placement of the columns (initially, the Viewer displays applets according to their .DSR filenames) by holding down your left mouse button over a column heading that you want to move, dragging it to the desired location, and then releasing the mouse button.
- You can hide columns by selecting Options | Show/Hide Columns from the Main menu, clearing the check boxes of the columns you want to hide, and then clicking OK.

To filter which applets are displayed in the Viewer:

1 Click the **Edit Display Filters** icon.



The Filters dialog is displayed.



Figure 3-4

- 2 Select the check box(es)in the **Show with Selected Services:** pane that correspond with the services that you want the **Viewer** to display.
- 3 Select the desired filter(s) from the **Comments**, **Number of Windows**, and **Selected Services Options** sections.
- 4 Click OK.

The applets that have the attributes you selected are displayed in the **Viewer**..

NOTE: DSRAZOR saves filters in a .**INI** file for future **Viewer** usage **only** if they pertain to applets' Comments or number of Windows. DSRAZOR does **not** retain filters based on applets' Selected Service Options.

About the Designer

The DSRAZOR Designer provides an easy-to-use graphical interface for Administrators to create their own applets or to customize the DSRAZOR pre-fabricated applets to fit their requirements. For information on each pre-fabricated applet, refer to **DSRAZOR** for Windows Ready-to-Run Applets.





Initial location on monitor screen (for windows)

The DSRAZOR **Designer** provides a drag-and-drop, point-and-click development environment for creating and modifying DSRAZOR applets.

By default, new applets are saved as with a *****.**DSR** extension and can be run if DSRAZOR is installed. You can choose to save an applet as a stand-alone executable file so it can be used at workstations that do not have DSRAZOR installed; unlike with monolithic tools (for example, Active Directory Users and Computers), you and your users enjoy simple access to what you need without having to learn how to use a big console.

To launch the **Designer**:

From the **Start** menu, click **Programs** | **DSRAZOR** | **Designer**. OR

From the Console, click Launch Designer.

By default, the toolbar displays across the top of the application window, below the menu bar. The toolbar provides quick mouse access to many tools and controls used in DSRAZOR. Many of the toolbar commands are duplicates of the menu commands.

There are two ways you can learn what a particular toolbar button action is:

- You can float the mouse over a button, and a tool tip will pop up with the command name.
- You can use the Help utility to activate the online help documentation for the toolbar button.

Click	То
1	Create a new DSRAZOR file.
	Create a new window.
(J	Open a DSRAZOR file.
	Save the current file.
Х	Cut the current control to the clipboard.
	Copy the current control to the clipboard.
a	Paste the control that was copied or cut into the clipboard.
0	Change to the previous window in the list.
0	Change to the next window in the list.
h.	Stop the drag-and-drop operation of a control that was started from either the toolbar or menu and reverts the cursor to a pointer.
÷	Resize Window/Control.
[^{XVZ}]	Start the drag-and-drop operation of a Group Box control.
	Start the drag-and-drop operation of a BitMap control.
	Start the drag-and-drop operation of a Button control.
A	Start the drag-and-drop operation of a Text control.

Table 3-1. Toolbar Commands

Click		То		
×	Start the drag-and-drop operation of a Check Box control.			
ab	Start the drag-and-drop operation of an Edit Text control.			
	Start the drag-and-drop operation of a Dropdown List control.			
	Start the drag-and-drop operation of a ListView control.			
Ш ^т	Start the drag-and-drop operation of a TreeView control.			
0	Test the current applet.			
EXE	Save the current applet as an application (*.EXE) for easy distribution.			
Windov field	dow Title An applet may have several windows working together. Sele a window from this dropdown menu to display an applet windo for editing.			

Table 3-1. Toolbar Commands (Continued)

Elements of Applets

Applets consist of the following:

- Windows (page 31)
- Controls (page 32)
- Services (page 36)
- Rules (<u>page 37</u>)

Windows contain controls. The functionality of controls is defined by services and rules.

To view what controls and services have been defined for an applet:

- 1 Open the applet in the **Designer**.
- 2 From the Main menu, select File | Window/Control Map.

About Windows

Windows are the pages that hold the functionality of an applet. An applet can have any number of windows that display when a different applet utility is called for.

Figure 3-6

DSRAZOR		_]	
dsr-0001				
🖻 🗊 dsrazor.local				-
Search and Find all User Accounts cre	ated in user-specified time beg	jinning in selecte	d container	
OU=DSRTest.DC=dsrazor.DC=local				<u>C</u> lo
Users found (GC search)	Object's Creation Date/Time	SAM name	User Principal Name	1
CN=Billy Bob Thornton,OU=DSRTest	September 18, 2006 14:31 (UTC)	bbt	<unknown></unknown>	1
CN=BugsBunny2,0U=DSRTest,DC=d	September 1, 2006 15:52 (UTC)	bbunnv2	<unknown></unknown>	
CN=George Jetson.OU=DSRTest.DC=	August 18, 2006 19:19 (UTC)	oldskoo	gjetson@dsrazor.local	Right
CN=George Q. Jefferson,OU=DSRTes	August 18, 2006 19:10 (UTC)	abc	abc@dsrazor.local	over
CN=George Test Jr., OU=DSRTest, DC	October 4, 2006 16:50 (UTC)	gtestjr	<unknown></unknown>	list fo
🕵 CN=George Test,OU=DSRTest,DC=ds	September 13, 2006 21:54 (UTC)	gtest	gtest@dsrazor.local	Repo
🕵 CN=George2 Q. Jefferson,OU=DSRTe	October 5, 2006 13:54 (UTC)	abc_45250e99	<unknown></unknown>	
😰 CN=Goofy Dog,OU=DSRTest,DC=dsr	October 5, 2006 18:41 (UTC)	gdog	gdog@dsrazor.local	
😴 CN=Joe IT,OU=DSRTest,DC=dsrazor,	October 10, 2006 16:31 (UTC)	JIT	JIT@dsrazor.local	
🏡 CN=john b,OU=DSRTest,DC=dsrazor,	October 10, 2006 21:46 (UTC)	johnb	johnb@dsrazor.local	
🕵 CN=Spidey Man,OU=DSRTest,DC=dsr	September 27, 2006 18:27 (UTC)	spidrey	spidrey@dsrazor.local	
🖸 CN=Lester Tester,OU=DSRTest,DC=dsr.	October 5, 2006 18:45 (UTC)	testuser1	ltester@dsrazor.local	
😰 CN=Turner Phrase,OU=DSRTest,DC=ds	October 5, 2006 14:39 (UTC)	testuser2	tphrase@dsrazor.local	
😰 CN=Lydia Encyclopedia,OU=DSRTest,d	October 5, 2006 14:39 (UTC)	testuser3	lencyclo@dsrazor.local	
🖸 CN=Joe Constable,OU=DSRTest,DC=ds	August 14, 2006 16:04 (UTC)	testuser-301	joecnstbl@dsrazor.local	
😰 CN=Wilhelmina Donne,OU=DSRTest,D(September 20, 2006 22:15 (UTC)	testuser-312	wildonne@dsrazor.local	
🖸 CN=Robin Banks,OU=DSRTest,DC=dsr		testuser-313	rbanks@dsrazor.local	
2 CN=Joe Cool,OU=DSRTest,DC=dsrazor		testuser-314	joecool@dsrazor.local —	1
CN=Courtney Yard, OU=DSRTest, DC=d.	September 12, 2006 20:52 (UTC)	testuser-318	cyard@dsrazor.local	
S CN=Janice Hamrick, OU=DSRTest, DC=	September 12, 2006 20:52 (UTC)	testuser-319	jhamrick@dsrazor.local	
	September 20, 2006 22:16 (UTC)	testuser-321	chfield@dsrazor.local	
So CN=Chester Field,0U=DSRTest,DC=dsr CN=Wendell Wynn,0U=DSRTest,DC=d			wynn@dsrazor.local	

This example shows two windows in the Find Users created in past X days applet (newusers2.DSR). The initial window displayed (in the back) offers a TreeView control that lets you browse Domains and Containers. Selecting a Container and clicking the Search beginning in the selected container button control opens the Select Time Rule dialog (not shown in above figure). You can either select a time-based rule type, select/enter a value, and click OK or click the No Rule Filter button to display the second window (in the front), which lists details of every user in the selected Container.

About Controls

Controls are elements of an applet used to hold and interact with data. The data in each control is provided by one or more services. The functionality of a control is determined by the services assigned to it (see <u>"About</u> <u>Services" on page 36</u>). DSRAZOR uses common Windows screen controls. You can choose from the following controls:

- Dropdown List (page 32)
- ListView (page 33)
- TreeView (page 33)
- Group Box (page 34)
- BitMap (page 34)
- Button (page 34)
- Text (<u>page 35</u>)
- Check Box (page 36)
- Edit Text (page 35)

For more information on using controls, see "Placing Controls" on page 42.

Dropdown List Control

The Dropdown List control is a simple list of items. There is no hierarchy or columns—just a list of items. You only see a single item unless you drop the list.

Figure 3-7



ListView Control

A ListView control has items listed in columns.

Figure 3-8

Membership by full AD/LDAP name	Email Address (primary)	Department	Expiration Date
🕵 CN=Testuser-20,0U=Corporate Accounts	Testuser-20@visualclick.com	QA	<never></never>

The first column is a list of items with one or more additional columns of singular data items. You can sort a ListView by clicking any of its columns. You may also adjust the size of the columns by dragging them.

Right-click on a ListView control to access the ListView Columns dialog.

TreeView Control

A TreeView control is simply a hierarchical list of items, as shown in the following figure.

Figure 3-9



Group Box Control

The Group Box control lets you group other controls visually or frame special informational aids. The Group Box itself has nothing more than an optional name. There are no services for Group Box controls.

Figure 3-10



BitMap Control

The BitMap control allows you to place your own graphics onto the applet screen. When you first import a bitmap, it will be its original size, but you can drag it to a size you prefer. There are no services for BitMap controls.

Button Control

The Button control may close the current screen or open another screen. There are actually many other button services, including bringing up a "canned" window such as **Change Password** or **Rename**.



selected Container

Text Control

The Text control allows you to display static text (that is, items you type in, such as labels, notes, or instructions), singular data items, such as the Last Login Date for an Active Directory user, or the count of listed items. The way a Text control is used depends on the service assigned to it.

Figure 3-12



This example uses two separate Text controls. The left control is a static text control. The right control is a count of listed items.

Edit Text Control

The Edit Text control allows you to edit singular data items, such as Password Expiration Date. Some Edit Text control services are for text items, and some are for numbers, Boolean values, and dates. When editing an Active Directory date field, the Edit Text control will be transformed to include a calendar you can choose a date from.

Edits made with Edit Text controls are applied when a connected button is clicked (see <u>"Connecting Controls" on page 58</u>).



Check Box Control

The Check Box control is actually a specialized Edit Text control for Boolean values. Changes made to the Active Directory Domain with Check Box controls are applied when a connected button is clicked (see <u>"Connecting Controls" on page 58</u>).

Figure 3-14

User is permitted to log on to a terminal server

About Services

On its own, a control is empty. To display or connect to data, you must associate a control with a **service**. The TreeView and ListView controls can be populated by more than one service at a time.

Services are sub-routines that change or query elements of your Active Directory Domain. Every control except Group Box and BitMap must have at least one service associated with it.

Services are categorized in two separate ways:

- By the controls to which they are associated (ListView, Button, etc.)
- By the services' uses (connection, Active Directory services, trustee, etc.)

When assigning a service to a control, the **Designer** only displays those services that are associated with the control. The services that are displayed are ordered alphabetically in each section.

The next two pages detail the different service categories based on control type.

To assign a service to a control, see <u>"Defining Services and Rules for</u> <u>Controls" on page 50</u>.

Listing Services

Provide lists of results (for example, a list of users). You can assign rules to most Listing services that determine the data that is listed (see <u>"Using Rules</u> to Refine Listing Services" on page 37).

Listing services are available for Dropdown List (<u>page 32</u>), ListView (primary column only—<u>page 33</u>), and TreeView (<u>page 33</u>) controls.

Using Rules to Refine Listing Services

Listing services can be further defined with **rules**.

The rules are Boolean and may be compound. Generally, rules act as a filter applied to the results of the service with which they are included (for example, only show users whose names are exactly eight characters long or only start with the letter H). However, some rules govern where results are gathered from (for example, which Organizational Units to search in Active Directory).

Some rules are based on other services (for example, only show users who have not logged in since March 3).

Display Services

Provide a single data item (for example, a user's full name; the free disk space on a volume; or the server's percentage of CPU). Also, you may choose the Static Text service and enter your own comments, description, or notes that will be displayed when you run the applet.

Display services are usually used in the secondary columns of a ListView (page 33) or in the Text control (page 35); however, Display services are also available for use as rules for Listing services (see <u>"Using Rules to</u> Refine Listing Services" on page 37).

Button Services

Usually provide for some action, such as closing a window or opening another. Some actions also include Change Password, Reset Intruder Lockout, and Move Home Directory.

Button services are only available for the Button control (page 34).

Edit Services

Similar to Display services, except that you can change the data that is presented when you run the applet. An Edit service **must** be associated with a Button control (typically **OK** or **Apply Changes**), which determines when to apply the changed data.

Edit services are for the Edit Text controls (page 35).

Check Box Services

Provide options that are only true or false (for example, whether an account status is enabled or disabled, or whether or not an account requires a password).

Check Box services are available for the Check Box control (<u>page 36</u>) or the Edit Text control (<u>page 35</u>). If using the Check Box control, selected is true and unselected is false. If using an Edit Text control, 1 is true and 0 is false.

Turning DSR Applets into Stand-alone Executables

You can save applets as stand-alone executables so that they can be run from workstations that do not have DSRAZOR installed; delegated to others; or automated with a task scheduler.

Stand-alone executable applets must be run from a directory that contains the necessary supporting .DLL files.

To save an applet as a stand-alone executable:

In the **Designer**, after testing a new or customized applet, either click **File** | **Save As EXE** or click the **EXE** icon.



If you compiled a stand-alone applet with an evaluation token, the stand-alone applet will stop working when the token expires. When you receive your licensed token, you must change the token file that the **Designer** uses for **Save As EXE**. The applets will have to be recompiled.

To change the token file used for Save As EXE:

1 In the Designer, select Options | Change Token File(s) for Save As EXE.

The Select your Token File(s) dialog is displayed.

2 Select a valid token and click **Open**.

Getting Started

Chapter 4 Working With Controls

<u>"About the Console" on page 21</u> provides basic overview information on the controls (that is, TreeView, ListView, Button, and so forth) that the **Designer** offers constructing applets.

Viewing an Applet's Map

The **Window/Control Map** displays at a glance all the windows and controls in the current applet. It also displays the services and rules defined in each control. It even displays the columns defined in the ListView controls.

Figure 4-1



To display the Window/Control Map:

Select **File** | **Window/Control** from the main menu of the **Designer** module.

Placing Controls

To place a control in an applet window:

1 In the **Designer**, click a control in the toolbar.



This example shows selecting a Dropdown List control.

2 Move the cursor over the current window to where the control should be placed.



The cursor arrow changes to a control marker.

- 3 Click the mouse to place the control.
- **NOTE:** Do **not** place a control on top of another control. This can cause unexpected behavior in an applet.
- 4 Right-click the control to define it.
- 5 After a control is placed, it must be defined. Do the following as necessary to define the control:
 - Reset the tab order of the control (see <u>page 44</u>)
 - Size and align the control (see <u>page 44</u>)
 - Assign a service and, if necessary, rules for the control to use (see <u>page 50</u>)

Defining Names for Controls

When you place a control, DSRAZOR for Windows gives it a default name, such as **TreeView** (101). When you start linking controls, you may want to use names other than the defaults. You may change the control names at any time.

To change the name of a control:

1 Right-click on the control.

The Services or Columns dialog for the selected control is displayed.

NOTE: If you have not yet added a service to the selected control, you are prompted to do so. Once you have selected a service, assign a name for the control that reflects that service.

The **Control Name** field in the lower left corner of the dialog displays the selected control's current name. The contents of the **Control Name** field become this control's label whenever this applet is run.

2 Edit the contents of the Control Name field and click OK.

Changing the Tab Order of Controls

When the user tabs through a window in an applet, the order in which a cursor moves from one control to the next is called the **tab order**. When a new control is placed in a window, it is inserted at the end of the tab order, but the **Designer** lets you re-order the tab stops on a window.

To change the tab order of a control:

1 In the **Designer**, select **Arrange** | **Tab Order**.

The **Tab Order** dialog is displayed, listing the controls on the current window that have a tab stop. Controls are listed in sequential tab order.

- 2 Select a control.
- 3 Click **Move Up** to move the selected control earlier in the tab order, OR

Click **Move Down** to move the selected control later in the tab order.

4 Click **OK** to save your changes and close the dialog.

Aligning and Sizing Controls

You can place a control by selecting and dragging it. You can size a control manually by selecting it, placing the cursor on the anchors (so the cursor changes to a double-arrow \leftrightarrow), and dragging.





The **Designer** provides several tools for automatically sizing and aligning controls. You can align controls a number of different ways. For Button controls, you can adjust them to be evenly aligned on the right or bottom. If you use the keyboard to interact with your applet, you will find the ability to adjust the tab order useful.

To set the DSRAZOR auto-arrange settings:

1 From the main **Designer** menu, click **Arrange** | **Arrange Settings**.

The **Arrange Settings** dialog is displayed with the following available options:

- **Grid Settings**—Windows have an invisible grid that controls the gradation of control sizing and arrangement. Increase the grid to make it easier to match the sizes and arrangement of controls. Values are in pixels.
- **Margins**—Governs the distance controls are auto-placed from the edge of windows. You can drag controls to override this setting. Values are in pixels.
- **Control Spacing**—Governs the distance that controls are auto-placed to each other. You can drag controls to override this setting. Values are in pixels.
- **Button Spacing**—Governs the default distance between buttons when the **Arrange** | **Buttons** commands are used.

The **Max Horizontal** value is used to arrange the buttons along the bottom of the window. If there are too many buttons to fit using this value, the space between buttons is reduced until they fit with equal spacing. But the distance will never be less than the **Min Horizontal** value. Values are in pixels.

To align selected controls:

- 1 Ctrl-click each control to select each without deselecting the previously selected control.
- 2 From the main **Designer** menu, click **Arrange** | **Align** | and select from the following options:
 - Left—Aligns the selected controls along the left edge of the last selected control
 - Vert. Center—Aligns the selected controls along the vertical axis of the last selected control
 - **Right**—Aligns the selected controls along the right edge of the **last** selected control
 - **Top**—Aligns the selected controls along the top edge of the **last** selected control
 - Horz. Center—Aligns the selected controls along the horizontal axis of the last selected control
 - **Bottom**—Aligns the selected controls along the bottom edge of the **last** selected control

All the selected controls are aligned according to the option selected.

To automatically make selected controls the same size:

- 1 Ctrl-click each control to select each without deselecting the previously selected control.
- 2 From the **Designer Main** menu, click **Arrange** | **Make Same Size** | and select from the following options:
 - **Height**—Makes the selected controls the same height
 - Width—Makes the selected controls the same width
 - **Both**—Makes the selected controls the same size

All the selected controls become the same size as the last control selected.

To make the spacing the same between vertically-placed controls:

1 Place the appropriate controls in vertical relation to each other, as in the following figure.

Eiguro 1-5

- 2 Set the tab order of the controls you are going to define so that it matches the order of their vertical order from top to bottom.
- 3 Ctrl-click each control, starting with the top control and working down.
- 4 From the main **Designer** menu, click **Arrange** | **Even Spacing** | **Down**. The selected controls are all placed the same distance from each other.

Figure 4-6
ОК
Find Users
<u>C</u> ancel

NOTE: The spacing between the controls is based on the Vertical value in the **Control Spacing** section of the **Arrange Settings** dialog. See <u>page 44</u> for how to change this setting.

To make the spacing the same between horizontally-placed controls:

1 Place the appropriate controls in horizontal relation to each other, as in the following figure.



- 2 Set the tab order of the controls you are going to define so that it matches the order of their vertical order from left to right.
- **3** Ctrl-click each control, starting with the leftmost control and working right.
- 4 From the main **Designer** menu, click **Arrange** | **Even Spacing** | **Across**. The selected controls are all placed the same distance from each other.



NOTE: The spacing between the controls is based on the Horizontal value in the **Control Spacing** section of the **Arrange Settings** dialog. See <u>page 44</u> for how to change this setting.

To automatically arrange all selected Button controls in the top right of the window:

- 1 Ctrl-click each Button control to select each without deselecting the previously selected Button control.
- 2 From the main **Designer** menu, click **Arrange** | **Button** | **Right**.
- 3 All the selected Button controls are stacked in the top right corner of the window.



NOTE: The Button controls are stacked from top to bottom, according to their tab order. See <u>"Changing the Tab Order of Controls" on page 44</u> for how to change the tab order of controls.

To automatically arrange all selected Button controls at the bottom of the window:

- 1 Ctrl-click each Button control to select each without deselecting the previously selected Button control.
- 2 From the main **Designer** menu, click **Arrange** | **Button** | **Bottom**.All the selected Button controls are arranged at the bottom of the window:



NOTE: The Button controls are arranged from left to right, according to their tab order. See <u>"Changing the Tab Order of Controls" on page 44</u> for how to change the tab order of controls.

Defining Services and Rules for Controls

A variety of dialogs is available for defining controls.

Add Service Dialog

The **Add Service** dialog enables you to assign a service to a ListView control or a TreeView control. The steps to access the **Add Service** dialog and the attributes that can be defined using it depend on the following:

- Whether you are defining a ListView control or a TreeView control
- Whether any services have been assigned yet to the control

ListView

Use this **Add Service** dialog to define the main (top) column of a ListView control. From this dialog, you can define the following for the main (top) column of a ListView:

- Assign a service to the main (top) column of a ListView control
- Set the Column Name and the width for the current column
- Set the Update Interval Seconds (see <u>"About Update Interval Seconds"</u> on page 57)
- Connect the selected service to another control (see <u>"Connecting</u> <u>Controls" on page 58</u>)
- Enter a Manual Entry (see <u>"About Manual Entry" on page 60</u>)

To access this **Add Service** dialog, place a new ListView control and right-click it.

TreeView

Use this **Add Service** dialog to define a branch in a TreeView control. From this dialog, you can define the following for a TreeView branch:

- Assign a service
- Set the Update Interval Seconds (see <u>"About Update Interval Seconds"</u> on page 57)
- Connect the selected service to another control (see <u>"Connecting</u> <u>Controls" on page 58</u>)
- Enter a Manual Entry (see <u>"About Manual Entry" on page 60</u>)

To access this Add Service dialog, do one of the following:

- Place a new TreeView control and right-click it.
- Right-click a currently defined TreeView control to display. From the **TreeView Services** dialog, click **Add**, **Add Nested**, or **Insert Nested**.

Add Column Dialog (ListView)

Use the **Add Column** dialog to add and define a new column to a ListView control. From this dialog, you can do the following:

- Assign a service to the added column
- Set the Column Name and the width for the current column
- Set the Update Interval Seconds (see <u>"About Update Interval Seconds"</u> on page 57)
- Enter a Manual Entry (see <u>"About Manual Entry" on page 60</u>)
- Set the alignment of the column

To access the **Add Column** dialog, right-click a currently defined ListView control. This dialog is displayed after the main (top) column has been defined using the **Add Service** dialog.

Edit Column Dialog (ListView)

Use the **Edit Column** dialog to edit the definition of a column in a ListView control. From this dialog, you can do the following:

- Change the assigned service of the column
- Set the Column Name and the width for the current column
- Set the Update Interval Seconds value for the control (see <u>"About Update</u> <u>Interval Seconds" on page 57</u>)
- Connect to the service of another control (see <u>"Connecting Controls" on page 58</u>)
- Enter a Manual Entry for the selected service (see <u>"About Manual Entry"</u> on page 60)

To access the Edit Column dialog:

1 Right-click a currently defined ListView control.

The ListView Columns dialog is displayed.

2 From this dialog, either click the **Edit** button in the Columns pane or double-click the service in the ListView Columns area.

Edit Service Dialog (TreeView)

Use the **Edit Service** dialog to edit the definition of a branch in a TreeView control. From this dialog, you can change the following for a TreeView branch:

- Assign a service
- Set the Update Interval Seconds value for the control (see <u>"About Update</u> <u>Interval Seconds" on page 57</u>)
- Connect to the service of another control (see <u>"Connecting Controls" on page 58</u>)
- Provide labels for the service by selecting the Use Tabs check box
- Enter a Manual Entry for the selected service (see <u>"About Manual Entry"</u> on page 60)

To access the **Edit Service** dialog, do the following:

- Right-click a currently defined TreeView control. The TreeView Services dialog is displayed.
- 2 From the **TreeView Services** dialog, click the **Edit** button in the Services pane.

TreeView Services Dialog

Use the **TreeView Services** dialog to access the dialogs to edit the definition of a branch in a TreeView control. From this dialog, you can do any of the following:

- Change the TreeView Name of the current TreeView control
- Edit the rules that define the items displayed in the current TreeView control
- Send the control's data directly to a CSV or TXT file, using the Output to File options
- Access the Edit Service dialog (see <u>page 52</u>)
- Add or delete services

To access the **TreeView Services** dialog, right-click a currently defined TreeView control.

ListView Columns Dialog

Use the **ListView Columns** dialog to edit information about the ListView control. From this dialog, you can do any of the following:

- Change the ListView Name of the current ListView control
- Edit the rules that define the items displayed in the current ListView control
- Send the control's data directly to a CSV or TXT file, using the Output to File options
- Access the Edit Column dialog (see page 52)
- Add or delete services
- Resize the columns

To access the **ListView Columns** dialog, right-click a currently defined ListView control.

Dropdown List Services Dialog

Use the **Dropdown List Services** dialog to add and define a Dropdown List control. From this dialog, you can do the following:

- Assign a service to the Dropdown List control
- Configure a rule to define the items listed in the Dropdown List control
- Change the name of the current Dropdown List control
- Set the Update Interval Seconds value for the control (see <u>"About Update</u> Interval Seconds" on page 57)
- Connect the selected service to another control (see <u>"Connecting</u> <u>Controls" on page 58</u>)
- Enter a Manual Entry for the selected service (see <u>"About Manual Entry"</u> on page 60)

To access the **Dropdown List Services** dialog, right-click a Dropdown List control.

Button Services Dialog

Use the **Button Services** dialog to add or define a Button control. From this dialog, you can do the following:

- Assign a service to the Button control
- Set the current Button control as the default button (that is, the button that is clicked when the **Enter** key is pressed)
- Set the caption (OK, Cancel, and so forth) of the current Button control
- Connect the selected service to another control (see <u>"Connecting</u> <u>Controls" on page 58</u>)

To access the **Button Services** dialog, right-click a Button control.

Check Box Services Dialog

Use the **Check Box Services** dialog to add or define a Check Box control. From this dialog, you can do the following:

- Assign a service to the Check Box control
- Choose to have the Check Box display selection data, but do not permit the user to change the selection
- Choose to place the text to the left of the check box
- Select a button that applies the check box's selection changes
- Set the caption (the text next to the check box) of the current Check Box control
- Connect the selected service to another control (see <u>"Connecting</u> <u>Controls" on page 58</u>)
- Enter a Manual Entry for the selected service (see <u>"About Manual Entry"</u> on page 60)

To access the **Check Box Services** dialog, right-click a Check Box control.

Text Services Dialog

Use the **Text Services** dialog to add or define a Text control. From this dialog, you can do the following:

- Assign a service to the control
- Set the caption of the control
- Align the caption and text service value (right, left, center)
- Add a border around the control
- Set the Update Interval Seconds value for the control (see <u>"About Update Interval Seconds" on page 57</u>)
- Connect the selected service to another control (see <u>"Connecting</u> <u>Controls" on page 58</u>)
- Enter a Manual Entry for the selected service (see <u>"About Manual Entry"</u> on page 60)

To access the Text Services dialog, right-click a Text control.

Edit Text Services Dialog

Use the **Edit Text Services** dialog to add or define a Text control. From this dialog, you can do the following:

- Assign a service to the control
- Select a button that applies the user-entered Edit Text value
- Define the properties of the Edit Field Styles
- Connect the selected service to another control (see <u>"Connecting</u> <u>Controls" on page 58</u>)
- Enter a Manual Entry for the selected service (see <u>"About Manual Entry"</u> on page 60)

To access the Edit Text Services dialog, right-click an Edit Text control.

About Update Interval Seconds

Some controls' services permit you to define the Update Interval Seconds. The data for the current control will be refreshed at the set interval. If the Update Interval Seconds is set to 0, the control data will not be refreshed.

The following controls use services that let you define the Update Interval Seconds:

- Dropdown List from the Dropdown List Services dialog
- ListView from the Add Service, Add Column, or Edit Column dialog
- TreeView from the Add Service or Edit Service dialog
- Text from the Text Services dialog

Using Rules to Refine Dropdown List, ListView, and TreeView Controls

DSRAZOR allows you to use rules to help further customize your applets. The rules are Boolean and may be compound. In general, rules act as a filter applied to the results of the service to which they are defined (for example, only show users whose names are exactly eight characters long or only start with the letter H). However, some rules govern where to gather results from (for example, which Organizational Units to search in Active Directory).

Additionally, some rules use relationships with other services (such as only showing users who have not logged in since March 3).

For more about rules, see <u>page 101</u>.

Connecting Controls

Connecting controls allows you to use the data from one control for the functions in another control. Any number of controls and almost any combination of controls can be connected. You can connect a control to other controls in the same window or in other windows.

Connected controls are **primary** and **secondary**. The secondary control gets its data only from the primary control.

For example, TreeView and ListView controls are defined on the same window. The TreeView control displays all the Active Directory Domains and containers on the servers to which you are attached. The ListView control lists all the Active Directory user objects in the container currently selected in the TreeView. For these two controls, the TreeView is primary and the ListView is secondary. There can be any number of connected controls in an applet.

There is one primary and one secondary control for each **connected relationship**. A single control can be a primary control in one connected relationship and, simultaneously, a secondary control in a separate connected relationship. A single control can be a primary control in any number of connected relationships simultaneously. A single control can be a secondary control in only one connected relationship at a time.

To connect two controls:

- 1 Place and define the primary control.
- **2** Place the secondary control and right-click it to define it.

The **Services** dialog or **Add Service** dialog for the selected control is displayed.

- **3** Select the service for the secondary control.
- 4 In the **Connect Service To** field, select the primary control.
- **NOTE:** If the secondary control does not use a service that is appropriate for connecting to a placed and defined primary service, the **Connect Service To** field is not available.
- 5 Finish defining the control and click **OK**.
To clear a connection between two controls:

- For the secondary control, access the Control Services, Edit Service, or ListView Columns dialog (depending on the control type).
 The Services or Columns dialog for the selected control is displayed.
- 2 Click Clear Connection To.

The current connection to the primary control is cleared.

3 Click **OK** to save the control definition.

Connecting Controls Example

Two TreeViews are defined on the same window. The first TreeView lists all containers in a domain. The second lists all groups in the container selected in the first TreeView.

To link these two TreeView controls as described:

- Define the first TreeView control to use the service AD: List All Containers (see <u>"Defining Services and Rules for Controls" on</u> page 50).
- **2** Define the second TreeView control to use the service *AD*: *List All Groups*.
- 3 Edit the *AD*: *List All Groups* service of the second TreeView control and select the first TreeView in the **Connect Service To** section of the **Edit Service** dialog.

About Manual Entry

To list all the appropriate objects or attributes from your currently attached network and display them in the **Search Manual Entry** field, click **Search Manual Entry**. For some services, you can select only one item from the list; for other services, you can choose multiple items.

Manual Entry Text:	
streetAddress	
Select Manual Entry:	
	Search Manual Entry

Fig	ure	4-1	1

You can set the **Manual Entry Text** on a ListView control or TreeView control when you add a service or edit a rule of a service. You can set the **Manual Entry Text** on other controls by right-clicking on them.

When a **Manual Entry Text** is set for a service of a ListView control or a TreeView control, a rule qualifying the service is displayed in the **ListView Columns** dialog or the **TreeView Services** dialog (respectively).

Figure 4-12

Rules:	
AD:Display value for selected Active Directory Attribute, use Manual Entry to select Attribute is equal to "lastLogon"	Edit <u>R</u> ules
	Copy Rules
	copy maios
	Paste Rules
ListView Name: ListView (306)	
	<u>H</u> elp

Configuring the Check Box Control

The **Check Box Services** window opens when you right-click a Check Box control. The **Check Box Services** window allows you to define the edits or displays of Boolean data. Choose one of the available services for the Check Box control. All Check Box controls depend on input from another service. Check Box services that will be used for editing the field require a button, which will be used to apply changes. Check Box services that will be used for display only do not require or allow a button to apply changes. Pick the service in the **Connect Service To** box, and then pick the button that will be used to apply changes.

There are two properties on this window that can be set. The **Display Only** flag can be selected so the data cannot be changed. By default, the text description for the Check Box is on the right of the Check Box. You can select the option to have the text description placed on the left of the Check Box.

Some lists of data are company specific or site specific, such as object classes or containers. To specify which of these types of data to list, use the Manual Entry feature.

Outputting Data from Controls

DSRAZOR lets you save the information in any ListView or TreeView to a file. You can do this manually while running any applet.

You can define ListViews and TreeViews to output their information to a file automatically (batch mode) without the applet user needing to do anything but launch the applet (see <u>page 76</u>).

Manually Saving Control Data to a File

While running any applet, DSRAZOR lets you choose to output the information in a ListView or TreeView to a **.TXT** file in a report format or to a **.CSV** file in a comma-delimited format.

To access DSRAZOR's manual output-to-file features:

• Right-click any ListView to display the following smart menu:

Figure 4-13
Export to CSV
Export to text report format
Print Report

• Right-click any TreeView to display the following smart menu:

Figure 4-14

Expand List from here Expand Entire List
Export to CSV Export to CSV - Fully Populate all Columns Export to CSV - Only Entirely Expanded Items Export to text report format
Print Report

You can manually save displayed control data in the following formats:

- Print the report
- ListView data to a text report
- ListView data to a comma-delimited file (see page 65)
- TreeView data to a text report (see <u>page 66</u>)
- TreeView data to a comma-delimited file in default format (see <u>page 68</u>)
- TreeView data to comma-delimited file with all columns fully populated (see page 70)
- TreeView data to a comma-delimited file with only entirely expanded items (see page 72)

Text information output to an existing file overwrites the file.

Comma-delimited information output to an existing file is appended to the file.

Manually Saving ListView Data to a Text Report File

While running any applet, the applet user can choose to output the information in a ListView to a **.TXT** file in a **Report** format.

The following is a ListView and its text report output.

Figure 4-15

Groups found (GC search)	Туре	Object's Creation Date/Time	#members
CN=Account Operators,CN=Builtin,DC=ape	Security Group - Domain Local	September 2, 2005 18:05 (UTC)	0
🐼 CN=Accounts Payable,0U=Corporate Acco	Security Group - Global	September 19, 2005 18:27 (UTC)	0
🐼 CN=Accounts Recievable,0U=Corporate A	Security Group - Global	September 19, 2005 18:28 (UTC)	67
🐼 CN=Administrative Staff,0U=Operations,0U	Security Group - Global	September 19, 2005 18:17 (UTC)	12
🕼 CN=Administrators,CN=Builtin,DC=apex,DC	Security Group - Domain Local	September 2, 2005 18:00 (UTC)	3

Figure 4-16

Report Name: Document Group Membership from selected domain

Requested By: KHoward Print Date: Tue October 17, 2006

Reporting For: apex.courtyard.dsrazor.local Number of Items Found: 5 Reporting For: Groups Found:

Groups found (GC search)	Туре	Object's Creation Date/Time	#members
CN=Account Operators,CN=Built CN=Accounts Payable,OU=Corpor CN=Accounts Recievable,OU=Cor CN=Administrative Staff,OU=Op CN=Administrators,CN=Builtin,	Security Group - Global Security Group - Global Security Group - Global	September 2, 2005 18:05 (UTC) September 19, 2005 18:27 (UTC) September 19, 2005 18:28 (UTC) September 19, 2005 18:17 (UTC) September 2, 2005 18:00 (UTC)	0 0 67 12 3

To manually save displayed ListView data to a text file:

- 1 Launch an applet that displays information in a ListView.
- **2** Right-click in the ListView.

A smart menu is displayed.



3 Select **Export to text report format**, name the new **.TXT** file, and select a location for it.

If the named file already exists, the file is overwritten.

Manually Saving ListView Data to a Comma-Delimited File

While running any applet, the applet user can choose to output the information in a ListView to a .csv file in a **Report** format.

The following is a ListView and its comma-delimited output.

Figure 4-18

Groups found (GC search)	Туре	Object's Creation Date/Time	#members
CN=Account Operators,CN=Builtin,DC=ape	Security Group - Domain Local	September 2, 2005 18:05 (UTC)	0
		September 19, 2005 18:27 (UTC)	0
🐼 CN=Accounts Recievable,0U=Corporate A	Security Group - Global	September 19, 2005 18:28 (UTC)	67
🐼 CN=Administrative Staff,0U=Operations,0	Security Group - Global	<unknown></unknown>	0
🕼 CN=Administrators,CN=Builtin,DC=apex,DC	Security Group - Domain Local	September 2, 2005 18:00 (UTC)	3

Figure 4-19

***, "Groups found (GC search)", "Type", "Object's Creation Date/Time", "#members", "CN=Account Operators, CN=Builtin, DC=apex, DC=courtyard, DC=dsrazor, DC=local", "Security Group - Domain Local (critical object cannot be deleted)", "September 2, 2005 18:05 (UTC)", "O", "CN=Accounts Payable, OU=Corporate Accounts, OU=Accounting, OU=QA Users, DC=apex, DC=courtyard, DC=dsrazor, DC=local", "Security Group - Global", "September 19, 2005 18:27 (UTC)", "O", "CN=Accounts Recievable, OU=Corporate Accounts, OU=Accounting, OU=QA Users, DC=apex, DC=courtyard, DC=dsrazor, DC=local", "Security Group - Global", "September 19, 2005 18:28 (UTC)", "G", "Security Group - Global", "September 19, 2005 18:28 (UTC)", "G", "Security Group - Global", "September 19, 2005 18:28 (UTC)", "G", "CN=Administrative Staff, OU=Operations, OU=QA Users, DC=apex, DC=courtyard, DC=dsrazor, DC=local", "Security Group - Global", "unknowns", "O", "CN=Administrators, CN=Builtin, DC=apex, DC=courtyard, DC=dsrazor, DC=local", "Security Group - Domain Local (critical object cannot be deleted)", "September 2, 2005 18:00 (UTC)", "3",

To manually save displayed ListView data to a comma-delimited file:

- 1 Launch an applet that displays information in a ListView.
- 2 Right-click in the ListView.

A smart menu is displayed.



Select Export to CSV, name the new .CSV file, and select a location 3 for it.

If the named file already exists, the information is **appended** to it.

Manually Saving TreeView Data to a Text Report File

While running any applet, the user can output the information in a TreeView to a **.TXT** file in a **Report** format.

The following is a TreeView and its text report output.



Figure 4-21

Figure 4-22

Report Name: Document Group Membership

Requested By: KHoward Print Date: Tue October 17, 2006

Reporting For: Expand below, then choose Domain Root or Container:

APEX dsr-0005 apex.courtyard.dsrazor.local Builtin Computers Domain Controllers ForeignSecurityPrincipals Infrastructure LostAndFound NTDS Quotas Program Data QA Users System Users To manually save displayed TreeView data to a text file:

- 1 Launch an applet that displays information in a TreeView.
- **2** Right-click the data in the TreeView.

A smart menu is displayed.

Figure 4-23

Expand List from here Expand Entire List
Export to CSV Export to CSV - Fully Populate all Columns Export to CSV - Only Entirely Expanded Items
Export to text report format
Print Report

3 Select **Export to text report format**, name the new **.TXT** file, and select a location for it.

If the named file already exists, the file is **overwritten**.

Manually Saving TreeView Data to a Comma-Delimited File (Default Format)

While running any applet, the applet user can choose to output the information in a TreeView to a **.Csv** file in a comma-delimited format.

NOTE: In the default format, only the last column of each item is populated.

The following is a TreeView and its default comma-delimited output.



To manually save displayed TreeView data to a comma-delimited file:

- 1 Launch an applet that displays information in a TreeView.
- **2** Right-click the data in the TreeView.

A smart menu is displayed.

Figure 4-26

Expand List from here Expand Entire List
Export to CSV
Export to CSV - Fully Populate all Columns Export to CSV - Only Entirely Expanded Items Export to text report format
Print Report

3 Select **Export to CSV**, name the new **.CSV** file, and select a location for it.

If the named file already exists, the information is **appended** to it.

Manually Saving TreeView Data to a Comma-Delimited File with Fully Populated Columns

While running any applet, the applet user can choose to output the information in a TreeView to a **.Csv** file in a comma-delimited format.

Rather than saving comma-delimited TreeView data with empty columns (see <u>page 68</u>), you can choose to save the data with the columns fully populated.

The following is a TreeView and its comma-delimited output with fully populated columns.



To manually save objects in a TreeView to a comma-delimited file in **fully populated** format:

- 1 Launch an applet that displays information in a TreeView.
- **2** Right-click the data in the TreeView.

A smart menu is displayed.



Expand List from here Expand Entire List
Export to CSV
Export to CSV - Fully Populate all Columns
Export to CSV - Only Entirely Expanded Items
Export to text report format
Print Report

3 Select Export to CSV - Fully Populate all Columns, name the new .CSV file, and select a location for it.

If the named file already exists, the information is **appended** to it.

Manually Saving TreeView Data to a Comma-Delimited File with Fully Populated Columns - Only Entirely Expanded Items

You can save TreeView data to a comma-delimited file that includes only the lowest Tree-level items that are expanded. In DSRAZOR this is referred to as saving **only entirely expanded items**. When the comma-delimited output is saved in this manner, the columns are **fully populated** (see the procedure on <u>page 70</u> for an explanation of this term).

<u>"Example 1" on page 73</u> and <u>"Example 2" on page 74</u> are TreeViews and their **Only Entirely Expanded** comma-delimited output.

To manually save only the objects in a TreeView that are "entirely expanded" to a comma-delimited file:

- 1 Launch an applet that displays information in a TreeView.
- 2 Right-click the data in the TreeView.

A smart menu is displayed.



Figure 4-30

3 Select Export to CSV - Only Entirely Expanded Items, name the new . CSV file, and select a location for it.

If the named file already exists, the information is **appended** to it.

Example 1

This is an example of a TreeView and its **Only Entirely Expanded** comma-delimited output.



Figure 4-32

```
***,
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Liverpudlians","Daniel Craig","Infamous",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Liverpudlians","George","Tutles",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Liverpudlians","George","The Concert for Bangladesh",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Liverpudlians","George","The Concert for Bangladesh",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Liverpudlians","George","The Traveling Wilburys",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Liverpudlians","George","The Traveling Wilburys",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Liverpudlians","John","Plastic Ono Band",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Liverpudlians","Peter Schaffer","Amadeus",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Liverpudlians","Peter Schaffer","Equus",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Liverpudlians","Peter Schaffer","Equus",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Liverpudlians","Peter Schaffer","Equus",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Liverpudlians","Peter Schaffer","Lettice and Lovage",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Liverpudlians","Rex Harrison","Nr Pair Lady",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Liverpudlians","Rex Harrison","Nr Fair Band",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Liverpudlians","Ringo","All-Starr Band","
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Liverpudlians","Ringo","Thomas the Tank Engine",
```

Example 2

This is an example of another TreeView and its **Only Entirely Expanded** comma-delimited output.



DSRAZOR for Windows User Guide

Figure 4-34

***,
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","28 Days","Steve Buscemi",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","Hope Floats","Gena Rowlands",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","Hope Floats","Harry Connick, Jr.",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","Hope Floats","Ricki Lake",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","Infamous","Daniel Craig",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","Infamous","Hope Davis",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","Infamous","Jeff Daniels",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","Infamous","Sigourney Weaver",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","Infamous","Toby Jones",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","Miss Congeniality","Benjamin Bratt",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","Miss Congeniality","Candace Bergen",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","Miss Congeniality","Michael Caine",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","Miss Congeniality","William Shatner",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","Speed","Dennis Hopper",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","Speed","Jeff Daniels",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","Speed","Keanu Reeves",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","The Lake House","Christopher Plummer",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","The Lake House","Keanu Reeves",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","While You Were Sleeping","Bill Pullman",
"APEX","dsr-0005","apex.courtyard.dsrazor.local","Austinites","Sandra Bullock","While You Were Sleeping","Peter Gallagher",

Creating Applets That Automatically Save TreeView and ListView Data

Rather than manually outputting data in controls while running an applet, DSRAZOR lets you define applets that automatically output ListView and TreeView data to a **.TXT** file in a **Report** format or to a **.CSV** file in a comma-delimited format.

You can define an individual ListView or TreeView to export data automatically when its window is launched. (See <u>page 76</u>.)

Defining ListViews or TreeViews to Automatically Save Their Information to a File

You can define ListView controls and TreeView controls to automatically export their data to a **.TXT** file in a report format or to a **.CSV** file in a comma-delimited format.

To define a ListView control or a TreeView control to automatically export its data to a file:

- In the Designer, right-click on the TreeView or ListView.
 The TreeView Services dialog or ListView Columns dialog is displayed.
- 2 Click **Output To File**.
- **3** The **Output To File** dialog is displayed.

Figure	4-35
--------	------

Dutput To File 🔀
🔽 Output To File
Overwrite - Create/Append © Overwrite or Create File
C Append to File
File Type
Prompt/No Prompt © Output To File with Filename Prompt at Runtime
 Output To File in Batch Mode (No Prompt)
Treeview Option
Filename:
homedirectories.csv
Select Filename (If no path is specified the file will be created in the directory where this solution was run from.)
Add Version to Filename
Add Version to Filename
i.e. filename.txt would be filename_000000.txt. Next filename would be filename_000001.txt.
Disallow applet abort function (forces applet to run to conclusion)
OK Cancel

Reasons to Output Control Data to a File

There are several good reasons for using this method to output control data to a file.

- You can create applets that run entirely in the background.
- For ListViews and TreeViews that generate large amounts of data, outputting data directly to file is faster than displaying results on screen.
- For ListViews and TreeViews that generate very large amounts of data, windows can run out of memory. Outputting the data directly to a file can prevent that.
- If you are running applets regularly, you can save them as executable (.EXE) files and schedule them to run unattended.

General Details on Automatic Out-to-File Controls

If a window has a ListView control **or** a TreeView control that is defined in this way, it will output the information to a file without displaying the data to the applet user.

Any TreeView control that is defined in this way automatically expands all branches completely before saving the control's data to a file.

If the initial window of an applet has a ListView control **or** a TreeView control defined in this way, the entire applet will run in the background (that is, in batch mode); it will not be interactive with the applet user.

Batch Mode Applets

When creating a batch mode applet, keep in mind the following:

- The entire applet must be built to run in one window control. Secondary windows are neither displayed nor accessed by the applet if any controls on the first window are defined to save data to a file.
- It is not necessary to allocate space for each column in a ListView or for Tree expansion in a TreeView.
- It is not necessary to define every ListView or TreeView on the window to send its data to a file.
- The sequence in which TreeViews and ListViews are output to file is determined by the tab order of the controls.

For example, if an applet has:

- a TreeView (defined to output to file) that displays containers and
- a ListView (linked to the TreeView and defined to output to file) that displays users in a specific container

Then the TreeView must have an earlier tab order than the ListView or else the ListView will not have any information saved to file.

• In the previous example, if the TreeView needs to be walked to a container for the desired data to display in the ListView, this would be done with mouse-clicks if the applet were **not** batch mode. In batch mode, you would need to use rules to define the exact container to be queried.

Creating a batch mode applet like this can easily produce unintended results if the applet and controls are not defined properly.

Applets With Interactive Out-to-File Reports

You can add a button that launches a separate window with a ListView or a TreeView that sends its data to a file. This method can let the applet user choose from variety of out-to-file reports options. This can also be used to segregate from less greedy controls a ListView or TreeView that would otherwise use a lot of system resources or take a long time to run.

IMPORTANT: Whenever you launch a window with multiple ListViews and/or TreeViews that automatically send output to file (whether for a batch mode applet or with interactive reports), unintended results can occur if the controls are not defined properly. For example, if a control on the window is defined to **Overwrite or Create File**, then the information of any controls with the previous tab order will be lost. If you need to create a new applet to do this, you can get help and advice by contacting Customer Support (supportw@visualclick.com).

Set Template for the Default Applet

You can designate an applet opened in the **Designer** to be the template. The template consists of the windows and controls initially displayed in the **Designer** when:

- You start a new applet (by selecting File | New).
- You open the **Designer** from the **DSRDES.EXE** file (rather than by opening a **.DSR** file by right-clicking an applet in the **Console** or any other method to open an already-created applet in the **Designer**).

The window size of the **Designer** itself when opened in this way is also saved as part of the template. The template setting of the **Designer** window size applies **whenever** the **Designer** is opened.

You can choose any applet opened in the **Designer** to be the template. If the chosen applet has multiple windows, the template will have those same multiple windows. All the controls of the windows of the chosen applet will be saved in the template.

To set an applet as the template:

- 1 In the **Designer**, size the window control.
- 2 Add and arrange controls within the window as desired for the template.
- **NOTE:** While it is possible to have a template with multiple window controls, it is usually more convenient for it to have only one window control.
- **3** Select File | Set File as Template.

If you clear the template from the **Designer**, the template reverts to the default template (a window control with a TreeView control and two Button controls). The **Designer** window-size setting will not revert.

To clear the current template from the **Designer**:

- 1 In the **Designer**, size the window control.
- 2 Add and arrange controls within the window as desired for the template.
- **3** Select **File** | **Clear Template**.

Working With Controls

Chapter 5 Creating a Simple Applet

Once you understand the design concepts the **Designer** uses, creating a workable applet is as easy as dragging and dropping icons onto a screen. See <u>Chapter 3, "Getting Started"</u> and <u>Chapter 4, "Working With Controls"</u> for information on the design concepts.

The procedure in this chapter will walk you through the creation of a DSRAZOR applet from start to finish using the **Designer**. When you have completed this procedure, you will have an applet that searches a selected Active Directory container branch and finds users who have not logged in for the past 30 days. This applet will allow you to browse the Active Directory Domain and select the container level from which you want to search.

NOTE: The applet you create in this chapter (nolog301a.dsr) already exists and is accessible from the DSRAZOR **Console** in the *Assess AD/NTFS Security* section under the name **Accounts unused for past 30 days**.

Creating this applet will consist of the following steps:

- <u>"Running the Designer" on page 84</u>
- "Naming the First Window" on page 86
- "Defining the TreeView Control" on page 88
- "Creating and Defining a Second Window" on page 94
- "Linking (Connecting) the First and Second Windows" on page 99
- "Assigning a Rule to the ListView's Primary Service" on page 101
- <u>"Adding a Boolean NOT Expression to the Rule" on page 106</u>
- "Adding Columns to the ListView" on page 108

- <u>"Connecting the Windows" on page 114</u>
- <u>"Taking a Test Drive" on page 119</u>
- "Saving Your Applet" on page 119
- "Modifying the Applet" on page 120

Running the Designer

To create an applet to find Active Directory user accounts that have not logged in within the past 30 days, perform the following procedure.

NOTE: This applet will consist of two windows. In the first window, the applet user will select a container from an attached Active Directory Domain and click a button to query for Active Directory user accounts that have not logged in within the last 30 days. The second window will display a list of the Active Directory user accounts that were found.

From the Start menu, click Programs | DSRAZOR | Designer.

The following startup screen is displayed, consisting of a window, an **OK** button, a **Cancel** button, and a **TreeView Control**.





Naming the First Window

The first window of this applet will let the user select a branch of an Active Directory Domain to query for Active Directory user objects.

To name the first window of the applet:

1 Right-click on the caption bar where it says **Window Title** (100).



The **Window Title** dialog box is displayed. The Window Title field is already highlighted.

Figure 5-3		
🔾 Window Title	×	
Window Title (100)	1	
User Comments in About Box:		
	1	
OK Cancel Help		

2 Type in the following as the title of your applet:

FIND User Accounts that have not logged on in past 30 days

3 Click in the **User Comments in About Box**. Enter the following comments:

Use this applet to find AD User Accounts with no login in the past 30 days. This applet will allow you to walk the AD Domain and select the Container level from where you want to start the search.

NOTE: This comment will later appear in the **Help / About** box of the applet. It will also appear if you right-click a blank area (in gray) of the final completed applet in the **Designer**.

4 Click OK.

Defining the TreeView Control

To define the TreeView control, perform the following procedure.

- **NOTE:** When you start a new applet, a TreeView control is placed on the initial window by default.
- 1 Right-click on the TreeView control.
- **NOTE:** The TreeView control is the large white space with the **Right Click on any control to define message** text.

The Add Service dialog for the TreeView control is displayed.

2 Click the plus sign + next to **Windows Services** to expand that branch.

🔏 Add Service		X
Available Services:		OK
Error Visual Click Software, Inc.		UK
		<u>C</u> ancel
Screen Services		
Windows Services Active Directory Services		
Control Panel Services		
Exchange Services		
File System Services		
Operating System and Performance Services		
Pre-Active Directory User/Domain Services		
Event Services Exchange Services Exchange Services Gervices Ge		
Integrating Services Services		
Shares Services		
Terminal Server Services		
		Update Interval Seconds:
		0
Connect Service to :	Manual Entry Text:	
		Clear Connect to
	Select Manual Entry:	
		Search Manual Entry
Tab Name:	🗖 Use Tabs	Help
,		

Figure 5-4

Figure 5-5



4 In the Active Directory Services branch, double-click AD:List Primary Domain Root for selected computer (or local computer if no connected to other service).

Figure 5-6



The **TreeView Services** dialog is displayed with the information service you just added.

Figure 5-7

🍕 Tree¥iew Services

Available Services:

AD:List Primary Domain Root for selected computer (or local computer if not connected to other service)

5 Click Add Nested in the Services section.

Figure 5-8	
Services	
<u>A</u> dd	
Add <u>N</u> ested	
Insert Nested	
<u>E</u> dit	

The **Add Service** dialog for the TreeView control is displayed again with the Active Directory Services branch displayed.

6 In the Active Directory Services section, double-click **AD:List All Containers on selected server (server must be a domain controller - if no server selected will use arbitrary DC in domain)**.

Figure 5-9

🔆 Add Service	×
Available Services:	
 AD:FSMO:List FSMO Roles for selected Primary Domain Root including Global Catalog Status of each DC AD:GPO:List AII GPOs for selected Domain Root by Display Name AD:GPO:List AII GPOs for selected Domain Root by Display Name AD:GPO:List GUID for GPO (use with "AD:GPO:List AII GPOs" service) AD:GPO:List Version Number for GPO (use with "AD:GPO:List AII GPOs" service) AD:GPO:List Version Number for GPO (use with "AD:GPO:List AII GPOs" service) AD:GPO:List Version Number for GPO (use with "AD:GPO:List AII GPOs" service) AD:GPO:List Version Number for GPO (use with "AD:GPO:List AII GPOs" service) AD:GPO:List Wene GPO created (use with "AD:GPO:List AII GPOs" service) AD:GPO:List Version Number for GPO (use with "AD:GPO:List AII GPOs" service) AD:GPO:List Version Number for GPO (use with "AD:GPO:List AII GPOs" service) AD:GPO:List Version Number for GPO (use with "AD:GPO:List AII GPOs" service) AD:GPO:List Version Number for GPO (use with "AD:GPO:List AII GPOs" service) AD:GPO:List Version Number for GPO (use with "AD:GPO:List AII GPOs" service) AD:GPO:List AII Contract CSV file, [Vada", Ji for Mass User (or Other Object] Create AD:IMPORT:AUTO_CREATE:Receive CSV file, [Vada", Ji for Mass User (or Other Object] Create AD:IMPORT:Receive CSV file, [Vada", Ji for Mass User (or Other Object] Create AD:IMPORT:Receive CSV file, [Vada", Ji for Mass User (or Other Object] Create AD:IMPORT:Receive CSV file, [Vada", Ji for Mass User (or Other Object] Create AD:IMPORT:Receive CSV file, [Vada", Ji for Mass User (or Other Object] Create AD:IMPORT:Receive CSV file, [Vada", Ji for Mass User (or Other Object] Create AD:IMPORT:Receive CSV file, [Vada", Ji for Mass User (or Other Object] Create AD:IMPORT:Receiv	OK <u>C</u> ancel © O
Connect Service to : Manual Entry Text: Select Manual Entry:	Clear Connect to Search Manual Entry
Tab Name: Use Tabs	Help

The **TreeView Services** dialog is displayed with the service information.

Figure 5-10



7 Click OK.

The first window is displayed in the **Designer** with the added services in the TreeView control.



Figure 5-11

- 8 To test your new TreeView settings, either:
 - Select File | Test Drive

OR

• Click the **Test Drive** icon.



If you are connected to a Windows Network, you will see the Active Directory Domain to which you are currently authenticated. Double-click it and browse through it.

Creating and Defining a Second Window

This applet window will ultimately let the user select a container branch of an Active Directory Domain to query for Active Directory user accounts.

Now you will create an applet window to list the Active Directory user accounts that have not logged in within the last 30 days.

To create and define the second window of the applet:

1 Click the **New Window** toolbar icon.

Fig	ure {	5-13
	*	

The first window and all its objects are replaced by a new window object.



DSRAZOR for Windows User Guide
2 Right-click on the caption bar that reads Window Title (200).



The Window Title dialog opens.

🕻 Window Title 🛛 🗙
Window Title (200)
User Comments in About Box:
✓ Allow Resize of this window
Enable Set/Clear Resize on ALL windows
C Set Allow Resize on ALL windows
C Clear Allow Resize on ALL windows
<u> </u>

3 In the field that reads **Window Title (200)**, type the following name:

Search and Find all User Accounts that have not logged on in past 30 days starting in selected container

Then, click OK.

- **NOTE:** This will be the **List** Window. The first window will be referred to as the **Find** window.
- 4 Click the **ListView** toolbar icon. Drag it onto the screen.

Figure 5-17



5 Click the ListView control to place it.



Figure 5-18

6 Adjust the size of the ListView control to fit in the window. You can change the size of the window control to suit your needs. You also have the option of changing the size of the ListView control later.

7 Right-click the ListView control.

The Add Service dialog for the selected ListView control is displayed.

8 Click the plus sign 🛨 next to Windows Services to expand that branch.



Figure 5-19

9 Click the plus sign + next to Active Directory Services to expand that branch.



10 In the Active Directory Services branch, highlight the **AD:SEARCH from selected Container Branch for all User Accounts** service.

Figure 5-21



This ListView is intended to query the selected Active Directory container branch in the **Find** Window. To do that, we must first connect the service to the TreeView.

Linking (Connecting) the First and Second Windows







- 3 In the **TreeView** branch, click the plus sign + next to **AD:List Primary Domain Root for selected computer (or local computer if no connected to other service)**.
- In the newly expanded branch, click the plus sign + next to AD:List All Containers on selected server (server must be a domain controller if no server selected will use arbitrary DC in domain) to connect it to this service.

5 In the **Column Name** field, change the name to **Users**.



AD:List values for selected Active Directory Attribute, u AD:SEARCH from selected Container Branch for all Gr AD:SEARCH from selected Container Branch for all Gr AD:SEARCH from selected Container Branch for all Ob AD:SEARCH from selected Container Branch for all US AD:SEARCH from selected Container Branch for all US AD:SEARCH from selected Container Branch for all US	mputer Accounts pups jects it contains er Accounts
Connect Service to : ☐: Find User accounts that have not logged on in past 30 days ☐: TreeView (100) ☐: AD:List Primary Domain Root for selected computer (or local computer if not cr <u>AD:List All Containers on selected server (server must be a domain contro</u> @: Search and Find all User Accounts that have not logged on in past 30 days starting in	Manual Entry Text: Select Manual Entry:
Column Name: Users Column Width: 276	

6 Click OK.

The ListView Columns dialog is displayed.

Figure 5-25

ListView Columns: Uses AD-SEARCH from selected Container Branch for all User Accounts - Connected to. Find User accounts that have not logged on in past 30 days::TreeView (105): AD-L Columns Colum	
	-1
Columns	
<u>A</u> dd	
<u>A</u> dd	
Edk	
Delete	
MoveUp	
<u>Move Down</u>	
Quput to File	
Column Sizing.	
Users	
I Rules:	
ALD Edit Bules	
Copy Rules	=
	_
Paste Rules:	
ListView Name: ListView (202)	

As the name of this assigned service suggests, this ListView will now query all users found in the selected TreeView branch list.

Assigning a Rule to the ListView's Primary Service

To assign a rule to the ListView:

1 Click **Edit Rules** to define a rule for this service.

Figure 5-26

Rules:	
ALL	Edit <u>R</u> ules
	Copy Rules
	Paste Rules
ListView Name: ListView (202)	<u>H</u> elp

The **Rules** dialog is displayed.

Rules for AD:SEARCH from selected Container Branch for all Computer Accounts	×
	Add Expression <u>AND <u>D</u>R <u>N</u>OT</u>
	Add Branch AND
	Edit Egpression Operator
	Delete
	All Copy Rules Paste Rules
OK Cancel	Help

2 Click AND in the Add Expression group box to add new rule.

Figure 5-28



NOTE: If a rule for the current service had already been defined, clicking **AND** would add a Boolean *and* argument to the rule.

The **Expression** dialog is displayed with the current service selected.

ĸ		Available Expressions:	
		Equal to	OK
	AD:MODIFY:Rename current AD Account, add specified characters as prefix to CN= - typically this	Starts with Ends with	Cance
	AD:MODIFY:Set Expiration Date for the number of days into the future from current date for current	Ends with Contains	Canoc
	AD:MODIFY:Smart Delete current AD & Exchange & Home Directory structure - typically this servic	Name Length Equal	
		Minimum Name Length	
	AD:SEARCH from selected Container Branch for all User Accounts	Maximum Name Length	
	7 DC:Display number of DOMAIN CONTROLLER objects in selected DOMAIN	Prompt for Text at Runtime	
	GC:Display number of objects in selected path		
	GC:Display number of unresolvable objects in selected path (subset of 'non-user, non-group, non-co		
	GC:Display number of USER objects in selected path		
	GC:Display number of USER objects in selected path plus time to scan		
	GC:Display Object's when Changed Date/Time from the Global Catalog		
÷	Control Panel Services		
÷	- Exchange Services		
÷	File System Services		
	Operating System and Performance Services		
÷	Pre-Active Directory User/Domain Services		
÷	Printer/Queue Services		
÷	Registry Services		
÷	Session/Connection Services		
÷	- Shares Services		
	Terminal Server Services		
on Paramete	>	1	
on Paramete o	28		

NOTE: The available fields displayed in this dialog will vary, depending on the service that will be affected.

Now you will use another service to define the information displayed by the current service.

3 Scroll up the expanded branch and highlight AD:Display Object's Last Logon Date/Time [most recent] (determined by scanning last logon recorded by each Domain Controller in domain).

4 In the Available Expressions field, select Date More Than X Days Ago.





Using the **AD:Display Object's Last Logon Date/Time [most recent]** (determined by scanning last logon recorded by each Domain Controller in domain) service in a rule will cause the user object to be displayed if its last logon date and time fall within the defined Expression Parameters.

5 In the Expression Parameters: Date More Than X Days Ago field, enter 30, and then click OK.

Expression Parameters: _ Date More Than X Day	s Ago
30	

The **Rules** dialog is displayed showing the new rule.



You have defined a rule for the current service to ensure it will only return Active Directory user objects that have not logged on in the past 30 days.

Next, you will add a NOT expression to this rule so it will exclude Active Directory user objects whose last logon value is "not set".

Adding a Boolean NOT Expression to the Rule

To add a NOT expression to the current ListView rule:

1 Click **NOT** in the **Add Expression** group box.

Figure 5-33

Add Expression
<u>A</u> ND
<u>0</u> R
<u>N</u> OT

The **Expression** dialog is displayed again with the **AD:Display Object's Last Logon Date/Time [most recent] (determined by scanning last logon recorded by each Domain Controller in domain)** service selected.

2 In the Available Expressions field, select Date Not Set.



Figure 5-34

3 Click OK.

The **Rules** dialog is displayed with the new NOT expression added to the rule.

💐 Rules for AD:SEARCH from selected Container Branch for all User Accounts

IF AD:Display Object's Last Logon Date/Time [most recent] (determined by scanning last NOT AD:Display Object's Last Logon Date/Time [most recent] (determined by scanning last

At this point, we have a filter to return **only** Active Directory user objects with no login for the past 30 days.

- **NOTE:** This will **not** include Active Directory user objects that have **never** logged in.
- 4 Click OK.

The **ListView Columns** dialog is displayed with the added service and the defined rules.

KistYiew Columns	×
ListView Columns:	
Users #AD:SEARCH from selected Container Branch for all User Accounts - Connected to: Find User accounts that have not logged on in past 30 days::TreeView (105):AD	:Li
	Cancel
	Columns
	<u>A</u> dd
	<u>E</u> dit
	Delete
	Move <u>U</u> p
	Move Down
۲	Output to File
Column Sizing:	_
	-
Rules:	
AD:Display Object's Last Logon Date/Time (most recent) (determined by scanning last logon recorded by each Domain Controller in domain) is more than 30 days agr	Edit <u>R</u> ules
NOT AD:Display Object's Last Logon Date/Time (most recent) (determined by scanning last logon recorded by each Domain Controller in domain) not set	Copy Rules
	Copy hules
	Paste Rules
ListView Name: ListView (202)	<u>H</u> elp

Adding Columns to the ListView

Now, this ListView has only one column that lists each Active Directory user object found by the service in the **ListView Columns** field. Most lists have more than one column—in this case, extra columns that would provide more information about each Active Directory user if the information is available.

To add columns to the ListView:

1 To add a new column, click **Add**.

Figure 5-37	
Columns	1
<u>A</u> dd	
<u> </u>	
<u>D</u> elete	
Move <u>U</u> p	
Move Down	

The Add Column dialog is displayed.

🌂 Add Columr		×
Available Colum		OK
- Visual Click	/isual Click Software, Inc.	<u>Ur</u>
÷	Innova Windows Services	Cancel
	Active Directory Services Control Panel Services	
	Exchange Services	
	E File System Services	
	File System Services Operating System and Performance Services	
	Pre-Active Directory User/Domain Services	
	E Printer/Queue Services	
	Registry Services	
	Session/Connection Services Services	
	Pre-Active Directory User/Domain Services Primer/Queue Services Primer/Queue Services Session/Connection Services Session/Connection Services Session/Connection Services	
		Alignment
		C Center
		Update Interval Seconds:
		1 ° 🖃
	Manual Entry Text	
	select Manual Entry:	
		Search Manual Entry
Column Name:	Column Wridth: 150	Help
Countrivalle.		

- 3 Scroll down and select AD:Display Object's Last Logon Date/Time [most recent] (determined by scanning last logon recorded by each Domain Controller in domain).



Remember, AD:Display Object's Last Logon Date/Time [most recent] (determined by scanning last logon recorded by each

Domain Controller in domain) is the same service you used in the rule for the first column service. In **that** case, you used this service to restrict the Active Directory user objects output by the first column service (that is, this service required that the **defined** service output only Active Directory user objects that have login accounts—logins whose last Date/Time login match certain defined parameters).

In **this** case, this same service determines that this second column in the ListView will display the date/time value of the most recent login each Active Directory user object in the first column.

You can set the following information at this time or edit the column later:

- Format in which the date/time is displayed
- Alignment of the data within the column
- How often the data in the column will be updated (0 means no update)
- Column heading
- Default width (in pixels) of the column when the ListView is initially displayed
- **NOTE:** Sometimes, the default value of a column is still too narrow to show all the data. The column width can be changed while running the applet.
- 4 In the Column Name field, type Last Login Date/Time, and in the Date/Time Format field, select a format. Click the dropdown list if necessary.
- 5 Click OK.

The **ListView Columns** dialog is displayed, showing the added column under the primary (top) column.

₩ ListView Columns	×
ListView Columns:	
Users #AD:SEARCH from selected Container Branch for all User Accounts - Connected to: Find User accounts that have not logged on in past 30 days:: TreeView (105)::AD:Li	<u>D</u> K
Last Logon Date/Time AD: Display Object's Last Logon Date/Time (most recent) (determined by scanning last logon recorded by each Domain Controller in domain)	Cancel
	Columns
	<u>A</u> dd
	<u>E</u> dit
	Delete
	Move <u>U</u> p
	Move Down
	Output to File
Column Sizing:	
Users Last Logon Date	
Rules:	
ALD	Edit <u>R</u> ules
	Copy Rules
	Paste Rules
ListView Name: ListView (202)	Help

NOTE: In a ListView, only the primary column can be defined by a rule. Subsequent columns are dependent on the primary column—that is, they provide information on the items listed in the primary column. 6 Repeat steps 1-5 to add more columns, as shown in the following figure.

i iguic o Fi		
💐 List View Columns	×	
ListView Columns:	<u>o</u> k	
Users AD-SEARCH from selected Container Branch for all User Accounts - Connected to: Find User accounts that have not logged on in past 30 days: TreeView (105): AD-Li - Last Logon Date/Time AD-Display Object's Last Logon Date/Time [most recent] (determined by scanning last logon recorded by each Domain Controller in domain) - Account Disabled? AD-Display if selected User's Account is Disabled	<u>C</u> ancel	
Home Directory II AD:Display Object's Home Directory	Columns	
	Add	
	<u>E</u> dit	
	Delete	
	Move <u>U</u> p	
	Move Down	
۲	Qutput to File	
Column Sizing:		
Users Last Logon Date/Time Account Disabled? Home Directory		
 Rules		
AD:Display Object's Last Logon Date/Time [most recent] (determined by scanning last logon recorded by each Domain Controller in domain) is more than 30 days ago	Edit <u>R</u> ules	
NOT) AD:Display Object's Last Logon Date/Time (most recent) (determined by scanning last logon recorded by each Domain Controller in domain) not set	Copy Rules	
	Paste Rules	
ListView Name: ListView (202)	Help	

7 After adding all the columns required, click **OK** in the **ListView Columns** dialog.

The second window is displayed in the Designer.

5 1 1 1
🗮 Designer [DSRAZ0R] - nolog301a.dsr ⁺
Ejle Edit Arrange Opbions Controls Window Help
 Image: Search and Find all User Accounts that have not logged on in past 30 days starting in selected containe Image: Image: Image
Search and Find all User Accounts that have not logged on in past 30 days starting in selected container branch Selection Users Last Logon Date/Time Account Disabled? Hone Directory Close
4
Ready

Figure 5-42

Connecting the Windows

Now you have two windows. The first window (**Find**) is for selecting an Active Directory container branch to query for Active Directory user objects. The second window (**List**) queries the selected branch and lists certain Active Directory user objects found in the selected Active Directory container branch.

You must tie these two windows together in a single applet. To do this, you need a way to open the second window after you select the Active Directory container branch on the first window. We accomplish this by placing a button on the first window that opens the second window when it is clicked.

To connect the first and second windows:

1 Click the **Previous Window** icon.



The first window is displayed.



2 Click the **Button Control** icon.



3 Drag the Button Control to the window and drop it at the desired location.



4 Right-click the new button.

The **Button Services** dialog is displayed.



- 5 Under the Common Buttons branch, select the service **Open Existing Window**.
- 6 In the Connect to Window: pane, select the second window (Search and Find all User Accounts that have not logged on in past 30 days starting in selected container).
- 7 In the **Button Caption** field, type Find Users.



8 Click OK.

The first window is displayed in the **Designer** with the new button and its new label.



Taking a Test Drive

To test your final applet:

1 Select File | Test Drive OR

Click the **Test Drive** icon.



- 2 Select the starting container and then click the **Find Users** button.
- **3** Right-click over the resulting list and save the results.
- **NOTE:** You have to be connected to the network for the test drive to work properly.

Saving Your Applet

If you want to be able to use your newly created applet in the future, you must save it. You can save the applet as either a .DSR file or an .EXE file. A .DSR file is a binary file that can be run if DSRAZOR is installed. An .EXE file is a stand-alone application that can be used on workstations that do not have DSRAZOR installed.

IMPORTANT: The **Console** is a DSRAZOR applet that was built in the **Designer**. When you create a new applet and save it as a .DSR file, you must **not** use the filename syntax **DEFAULT*.DSR**, as it will interfere with the **Console**.

The three methods for saving an applet as a .DSR file are as follows:

• Clicking the Save icon from the toolbar



• Selecting Save from the File menu

- Selecting **Save as** from the **File** menu.
- **IMPORTANT:** To save an applet as an application (*.EXE), you **must** have a token file (purchased or evaluation). When DSRAZOR for Windows prompts you to select a token, click **OK** to close the prompt, highlight the token you want in the Select your Token file(s) dialog, and click **Open**.

After you save your **. EXE** file, you are notified to make sure that **DLL** file(s) are copied to the same directory as your **.EXE** file.

The two methods for saving an applet as an **.Exe** file are as follows:

• Clicking the **.EXE** icon from the toolbar



• Selecting Save as EXE from the File menu.

Modifying the Applet

You might want to change an applet. Some of the applets available from the **Console** require that you alter them to work in your network.

In the following steps, you will alter the applet you created in this chapter so that the applet user can disable the listed Active Directory user objects that have not been accessed within the last 30 days.

IMPORTANT: The **Console** is a DSRAZOR applet that was built in the **Designer**. When you modify an applet and save it as a **.DSR** file, you must **not** use the filename syntax **DEFAULT*.DSR**, as it will interfere with the **Console**.

To modify your applet:

1 From the **Designer**, open the saved applet.



2 Click the Next Window icon.



The second window is displayed.





3 Click the **Button Control** icon.



4 Drag the Button Control to the window and drop it at the desired location.



5 Right-click the new button.

The **Button Services** dialog is displayed.

- 6 Click the plus sign 🛨 next to Windows Services to expand that branch.
- 7 Click the plus sign 🛨 next to Active Directory Services to expand that branch.



8 In the Active Directory Services branch, highlight AD:Disable selected Active Directory User Account(s).

Button Services	
ailable Services.	OK
AD Advo: valected objects DACL to inheit permissions from the parent object and copy all inherited permissions from parent AD Assign Single Use Password for selected Active Directory Use Account(1) Must change password at next logon1 AD Assign Single Use Password for selected Active Directory Use Account(1) Must change password at next logon1 AD Assign Single Use Password for selected Active Directory Use Account(1) Must change password at next logon1 AD Assign Single Use Password for selected Active Directory Use Account(1) Must change password at next logon1 AD Change Password for selected Active Directory Use Account(1) AD Change Password for selected Active Directory Use Account(1) AD Change Password for selected Active Directory Use Account(1) AD Change Password for selected Active Directory Use Account(1) AD Change Password for selected Active Directory Use Account(1) AD Change Password for selected Active Directory Use Account(1) AD Change Password for selected Active Directory Use Account(1) AD Change Password for selected Active Directory Use Account(1) AD Change Password for selected Active Directory User Account(1) AD Change Password for selected Active Directory User Account(1) AD Change Fassword for a selected Active Directory User Account(1) AD Change Fassword for Active Directory User Account(1) AD Change Fassword (1) AD Change Fassword (<u>DK</u>
AD:Display Diped's Picture (Thumbhail Photo)	Default Button
need Service to :	Default Button
Infect Service to : Find User accounts that have not logged on in past 30 days starting in a Search and Find all User Accounts that have not logged on in past 30 days starting in a	
ton Caption: AD-Disable selected Active Directory User Account(s)	<u>H</u> elp

9 In the Connect Service to: pane, click the plus sign + next to the second window's title (Search and Find all User Accounts that have not logged on in past 30 days starting in selected container) to expand that branch.



10 In the newly expanded branch, highlight the **ListView** entry to connect this service. (This will connect the button to the ListView that contains the users.)





11 In the Button Caption field, type Disable Selected User Account(s).





12 Click OK.

The second window is displayed in the **Designer** with the new button and its new label.



Figure 5-63

13 To help select all users found, add one more button. Start by clicking the Button Control icon.



14 Drag the Button Control to the window and drop it at the desired location.



Kesigner [D5RAZOR] - nolog301a.dsr*	_ 8 ×
Elle Edit Arrange Options Controls Window Help	
 Image: Search and Find all User Accounts that have not logged on in past 30 days starting in selecte Image: Image: I	d containe 🔽 🤤 😜
Image: Contract of the second state is an end logged on in past 30 days starting in selected container Image: Contract of the second state is an end logged on in past 30 days starting in selected container Image: Contract of the second state is an end logged on in past 30 days starting in selected container Image: Contract of the second state is an end logged on in past 30 days starting in selected container Image: Contract of the second state is an end second second state is an end second state is an end second seco	
Ready	434, 165 [50, 33

15 Right-click the new button.

The **Button Services** dialog is displayed.

- **16** Click the plus sign + next to **Screen Services** to expand that branch.
- 17 Click the plus sign + next to Common Buttons to expand that branch, and then select ListView:Select All Items.
- 18 In the Connect Service to: pane, click the plus sign + next to the second window's title (Search and Find all User Accounts that have not logged on in past 30 days starting in selected container) to expand that branch.

19 In the newly expanded branch, highlight the **ListView** entry.



20 In the Button Caption field, type Select All.21 Click OK.

The second window is displayed in the **Designer** with the new button and its new label.

	Ele Edit Arrange Options Controls Window Help Ele Edit Arrange Options Controls Window Help Seconds and Find all User Accounts that have not logged on in past 30 days starting in selected container Seconds and Find all User Accounts that have not logged on in past 30 days starting in selected container branch Users Last Logon Date/Time Account Disabled? Home Directory Select All Bitable selected User	i iguic o oi	
Select All	Seect All	🗮 Designer [DSRAZOR] - nolog301a.dsr*	_ 8 ×
Comparison of the second state of the sec	Seect All	Elle Edit Arrange Options Controls Window Help	
Control C		👔 📴 🚅 🖬 🔣 📭 💼 Search and Find all User Accounts that have not logged on in past 30 days starting in selecte	d containe 🝷 🕒 😜
Search and Find all User Accounts that have not logged on in past 30 days starting in selected container branch	Search and Find all User Accounts that have not logged on in past 30 days starting in selected container branch		
Last Logon Date/Time Account Disabled? Home Directory Select All Disable selected User	Last Logon Date/Time Account Dinabled? Home Directory Select All Disable selected User		
Users Last Logon Date/Time Account Disabled? Home Directory Select All Disable selected User	Users Last Logon Date/Time Account Disabled? Home Directory Select All Disable refected User	ዿ Search and Find all User Accounts that have not logged on in past 30 days starting in selected container branch 📃 🔲 🗙	
Users Last Logon Date/Time Account Disabled? Home Directory Select All Disable selected User	Users Last Logon Date/Time Account Disabled? Home Directory Select All Disable refected User	Close	
Disable selected User	Disable elected User		
Disable selected User	Disable selected User		
Disable selected User	Disable elected User		
Disable selected User	Disable elected User		
Disable selected User	Disable elected User		
Disable selected User	Disable elected User		
Disable selected User	Disable elected User		
Disable selected User	Disable elected User		
Disable selected User	Disable elected User		
Disable selected User	Disable elected User		
Disable selected User	Disable elected User		
selected User	selected User	Select All	
selected User	selected User		
selected User	selected User		
selected User	selected User		
selected User	selected User		
selected User	selected User	Disable	
		selected User	
		Accounts	
Ready 11 434, 165 11 50, 33	Ready 134, 165 / 🛅 50, 33	Ready	434, 165 👖 50, 33

22 To test the modified applet, either:

• Select File | Test Drive

OR

• Click the **Test Drive** icon.



- **23** If you want to be able to use your newly modified applet in the future, you must save it as either a **.DSR** file or an **.EXE** file.
- **IMPORTANT:** When you modify an applet and save it as a .DSR file, you must **not** use the filename syntax **DEFAULT***.DSR, as it will interfere with the **Console**.

The three methods for saving an applet as a .DSR file are as follows:

• Clicking the **Save** icon from the toolbar



- Selecting Save from the File menu
- Selecting **Save as** from the **File** menu.

IMPORTANT: To save an applet as an application (*.EXE), you **must** have a token file (purchased or evaluation). When DSRAZOR for Windows prompts you to select a token, click **OK** to close the prompt, highlight the token you want in the Select your Token file(s) dialog, and click **Open**.

After you save your **. EXE** file, you are notified to make sure that **DLL** file(s) are copied to the same directory as your **.EXE** file.

The two methods for saving an applet as an **.ExE** file are as follows:

• Clicking the **.EXE** icon from the toolbar



• Selecting **Save as EXE** from the **File** menu.

Now you can work interactively with the list of users found by the applet.
Chapter 6 Customizing the Console

The **Console** is a DSRAZOR applet that was built in the **Designer**. In the **Designer**, you can customize the **Console** to display applets in its menu that you create.

To customize the **Console**:

- 1 Launch the **Designer**.
- 2 Select File | Open.The Open DSRAZOR (DSR) file dialog is displayed.
- 3 Highlight the Console applet, DEFAULTW.DSR, and click Open. DEFAULTW.DSR opens in the Designer.

Figure 6-1

Designer [DSRAZOR] -	defaultw.dsr*							_ 8
ile <u>E</u> dit <u>A</u> rrange <u>O</u> ptior	ns ⊆ontrols <u>W</u> indo	w <u>H</u> elp						
12 2 2	DSF	AZOR Cons	ole				•	00
k 🚸 🗂 🔢 🖸	A 🗵 ab 🗐		8				_	
Console								
The TreeView below cont	ains all the MENU He	aders and under	each are the	individual MB	NU Items.			
Find Duplicate F Local Admin Pas List Local Group Launch Designer II C Launch J Consol Consol Cather data for c Exit II Console Menu	e Menu Item to Incluo nsole Menu Header to juote request Consc	nsole Menu Item ie Menu Item to Ir to Include - click le - click on ''Use i Include - click o le Menu Item to I lick on ''Use Tab	to Include - c include - click on ''Use Ta Fabs'' and I n ''Use Tabs' nclude - click s'' and fill in f	lick on "Use on "Use Tab on "Use Tab os" and fill in v ill in the Desc " and fill in will on "Use Tab with Menu He	「abs'' and fill ir s'' and fill in s'' and fill in vith Menu H iption you v h Menu He s'' and fill ir ader Name	ill ir i thi tea war wade h th		
						<u> </u>		
Below are options: (1) "M	ore about the Lonsol pre about Console		to Customize to Customize		j Bitmap Gr	apnic		
Bitmap image 610x84:	ole about controle	I light click	to castomize		_			
DSR/		ndows 🖣	STORT.	Interac iive Dire		0	ß	
ady								1 440, 24

- **IMPORTANT:** When you customize an applet and save it as a .DSR file, you must **not** use the filename syntax **DEFAULT***.DSR, as it will interfere with the **Console**.
- 4 Select File | Save As.

The Save DSRAZOR (DSR) File dialog opens.

5 Type a name—other than **DEFAULT***.**DSR**—in the File Name field and click the **Save** button.

You have just saved the **Console** applet under a new name.

NOTE: The TreeView lists all the Menu Headers (those with the gray/red dots) and the Menu Items.

Editing a Console Menu Header Service

1 Right-click on the TreeView.

The TreeView Services dialog is displayed.



Figure 6-2

This TreeView control is currently using **Console** services. The **Console** services regulate the overall "look" of the Console applet, making it look like a console. In other words, when an applet contains a TreeView using **Console** services, the final applet will look like a **Console** rather than a normal applet with a TreeView control.

The **root** of each **tree** in a Console TreeView is a Console Menu Header service. The **branches** of each tree are Console Menu Item services. A TreeView using **Console** services will display a maximum of nine trees; the Console "look" only provides that much room for headers. If you add more, only the first nine will be displayed in the final applet.

2 Highlight the first item in the TreeView. (You may have to scroll up to do this.)



K TreeView Services
Available Services:
Assess NDS Security Console Menu Header to Include - click on "Use Tabs" and fill in with
Figure - [Request the report you need here] Console Menu Item to Include - click on "Use Tabs
Accounts that are expired or locked Console Menu Item to Include - click on "Use Tabs"
Accounts with Personal Login Scripts Console Menu Item to Include - click on "Use Tab

3 Click **Edit** in the **Services** section.

Figure 6-4		
Services		
<u>A</u> dd		
Add <u>N</u> ested		
Insert Nested		
<u>E</u> dit		
Dialata		

The Edit Service dialog is displayed.

Figure 6-5

Cold Service		
Available Services:		
Veruel Cicl: Software, Inc. Bit Hord Sanker Soreen Services Commonly Displayed Data Def Commonly Displayed Data	s ^{or} and fill in with Menu Header Name and fill in the Description you want for this item	OK Cancel
⊞Westows Windows Services		
		Update Interval Seconds:
nnect Service to :	Manual Entry Text	
B-DSRAZOR Console	Select Manual Entry:	Clear Connect I
		Search Manual E
ab Name: Assess AD/NTFS Security	✓ Use Tabs	Help

4 Change the Tab Name field so that it reads **Checking AD/NTFS Security**.

Figure 6-6



5 Click OK.

The TreeView Services dialog is displayed.

6 Click OK.

The **Designer** is displayed.

- **7** To test your changes, either:
 - Select File | Test Drive

OR

• Click the **Test Drive** icon.



The first Menu Header has changed. There is only so much horizontal space for a Menu Header. If it is too long, it will be cut off on the right side.

8 Click **Exit** to return to the **Designer**.

Removing a Console Menu Header and Associated Applets

1 Right-click the TreeView.

The TreeView Services dialog is displayed.

2 Highlight the Checking AD/NTFS Security Menu Header.

Figure 6-9



3 Click Delete Branch.

The selected Console Menu Header service and all the associated Console Menu Item services are deleted.

4 Click OK.

The **Designer** is displayed.

- **5** To test your changes, either:
 - Select File | Test Drive

OR

• Click the **Test Drive** icon.



Figure 6-11



The first Menu Header is now Query and Search AD.

- **NOTE:** Remember that there can only be nine Menu Headers. The default arrangement is for the first seven to be grouped together and the last two to be grouped together; so, "Launch Designer" is now grouped with the Menu Headers. Next, you will modify the grouping of the Menu Items.
- 6 Click **Exit** to close the **Console** and return to the **Designer**.
- 7 From the **Designer**, click **File** | **Exit**.
- 8 When prompted by the **Save changes to resource file**? dialog, click **No**.

Adding a Console Menu Item to a Console Menu Header

- 1 Launch the **Designer**.
- 2 Select File | Open.The Open DSRAZOR (DSR) file dialog is displayed.
- 3 Highlight the **Console** applet, **DEFAULTW.DSR**, and click **Open**. **DEFAULTW.DSR** opens in the **Designer**.
- 4 Right-click the TreeView control.

The TreeView Services dialog is displayed.

5 Highlight Query and Search AD || Console Menu Header and click Add Nested.



Figure 6-12

The Add Service dialog is displayed.

6 Highlight the bottom item under **Custom Console Services**. This is the new service item you are adding to the **Query and Search AD** section.

Add Service		×
Available Services:		ок
Visual Click Software, Inc.		
Commonly Displayed Data		Cancel
Commonly Displayed Data		
👘 🖓 🚙 Console Menu Header to Include - click on "Use Tab	s" and fill in with Menu Header Name	
	and fill in the Description you want for this item	
		Update Interval
		Seconds:
		0
Connect Service to :	Manual Entry Text:	
		Clear Connect to
	Select Manual Entry:	
		Search Manual Entry
	—	
Tab Name:	🗖 Use Tabs	Help

Figure 6-13

7 Select the Use Tabs check box.

The Tab Name field is enabled.



Add Service		
Available Services:		01
Visual Clock Software, Inc. Screen Services Connorly Diplayed Data Curtom Concide Services Console Menu Head to Include - click on "Use Tabs" a Console Menu Head to Include - click on "Use Tabs" a	s" and fill in with Meru Header Name and fill in the Description you want for this item	Cancel
onniel Service to :	Manual Fado Tanto	Update Interval Seconds:
ameci service ro :	Manual Entry Text: Select Manual Entry:	Clear Connect to
ab Name: Console Menu Item to Include - click on "Use Tabs" and fill in the Descriptio	I Use Tabs	Help

8 Enter a name for the new Menu Item in the Tab Name field.

Figure 6-15



NOTE: Typically, the Tabs are used to organize the output displayed in TreeView and ListView controls. However, in the case of the **Console**, the Tab Name is the name of each applet displayed in the list of Menu Items.

- 9 In the **Manual Entry Text** field, type **CONSOLE1.DSR**. This is the **.DSR** filename of the applet that will run.
- **NOTE:** Tab names are displayed alphabetically.

Kadd Service		×
Available Services:		OK <u>C</u> ancel
		Seconds:
Connect Service to :	Manual Entry Text: [CDNSOLET.DSR] Select Manual Entry:	Clear Connect to
Tab Name: A Very Useful Solution	🔽 Use Tabs	Help

Figure 6-16

NOTE: CONSOLE1.DSR is not an actual applet. In this case, we are only creating a dummy Console Menu Item. To have this Console Menu Item access a real, existing applet, enter the name of a **.DSR** file in your DSRAZOR installation directory.

- **IMPORTANT:** For **Console** applets, instead of typing a **.DSR** filename to launch, there are three special commands that you can enter in the **Manual Entry Text** field:
 - **EXIT.** When this is used in a Menu Item, clicking the associated Menu Header will close (exit) the **Console**. The Menu Item must be at the root of the branch and, naturally, none of the other Menu Items will be accessible.
 - **RUNDES**. When this is used in a Menu Item, clicking the associated Menu Header will launch the **Designer** (DSRDES.EXE). The Menu Item must be at the root of the branch and, naturally, none of the other Menu Items will be accessible.
 - **RUN** *filename* where *filename* is the name of a file to open. The file to open can be a file type that Internet Explorer recognizes (e.g., .HTML, .DOC, .PDF, etc.). Unlike the other commands, this command can be used with other Menu Items. For example, you could have a Console that launches to a lot of listed URLs.

10 Click OK.

The TreeView Services dialog is displayed.

Figure 6-17



11 To see the **EXIT** and **RUNDES** commands in use, scroll down to the bottom of the list of Menu Headers/Items in the Available Services pane.

An example of the **RUN** keyword is the first Menu Item under the **Query and Search AD** section heading. This Menu Item launches the **Create My Solution** service web page.

Figure 6-18

× TreeView Services 🛛					
Available Services:	<u>0</u> K				
Query and Search AD Console Menu Header to Include - click on "Use Tabs" and fill in with Menu Header Name Request the report you need here Console Menu Item to Include - click on "Use Tabs" and fill in the Description you want for this item Document Group Membership Console Menu Item to Include - click on "Use Tabs" and fill in the Description you want for this item Document Group Membership Console Menu Item to Include - click on "Use Tabs" and fill in the Description you want for this item Document Group Membership Console Menu Item to Include - click on "Use Tabs" and fill in the Description you want for this item Bourieate AD Dipicet Xames Console Menu Item to Include - click on "Use Tabs" and fill in the Description you want for this item Raw AD Object View Console Menu Item to Include - click on "Use Tabs" and fill in the Description you want for this item Simple AD User Details View Console Menu Item to Include - click on "Use Tabs" and fill in the Description you want for this item Find Users created in past X days Console Menu Item to Include - click on "Use Tabs" and fill in the Description you want for this item Find user Creation Time Report Console Menu Item to Include - click on "Use Tabs" and fill in the Description you want for this item Find users created in past X days Console Menu Item to Include - click on "Use Tabs" and fill in the Description you want for this item Event Groups that are members Console Menu Item to Include - click on "Use Tabs" and fill in the Description you want for this item Conduct Accounts with no password reset for past 45 days + cleanup Console Menu Item to Include - click on "Use Tabs" and fill in the Description you want for this item Computer Accounts with no password reset for past 45 days + cleanup Console Menu Item to Include - click on "Use Tabs" and fill in the Description you want for this item Request the HelpDesk	Cancel Cancel Add Add Nested Jmet Nested Edt Delete Branch Move Up Move Down Qutput to File				
Rules:					
Console Menu Item to Include - click on "Use Tabs" and fill in the Description you want for this item is equal to "RUN VCS_CMS.HTM"	Edit <u>B</u> ules Copy Rules Paste Rules				
TreeView Name: TreeView (101)	Help				

12 Click **OK** to return to the **Designer**.

13 To test your changes, either:

• Select File | Test Drive

OR

• Click the **Test Drive** icon.



14 From the **Console**, click the **Query and Search AD** Menu Header to view the new Menu Item.

Console [DSRAZOR]	Document, Interact, Query and Manage
More about the Console	View Online Demos Double Click to Run Right Click to Edit
 → Query and Search AD → HelpDesk Examples → AD User Maintenance → Examine Servers/Disks → Launch Designer → Request Quote → Exit 	 [Request the report you need here] [A Very Useful Solution] Computer Accounts with no password reset for past 45 days + cleanup Document Computer Details Document Group Membership Document Group Membership #2 Document Groups that are members Enter your own LDAP Query - optionally search via Global Catalog Find Duplicate AD Object Names Find Users created in past X days Last Logon Date and Time for Computer Accounts

Figure 6-20

- **15** Click **Exit** to close the **Console** and return to the **Designer**.
- **16** From the **Designer**, click **File** | **Exit**.
- **17** When prompted by the **Save changes to resource file DEFAULTW.DSR?** dialog, click **No**.

Editing the Console Options

- 1 Launch the **Designer**.
- 2 Select File | Open.

The Open DSRAZOR (DSR) file dialog is displayed.

3 Highlight the Console applet, DEFAULTW.DSR, and click Open. DEFAULTW.DSR opens in the Designer.

Under the TreeView Control, there is a list of options.

Figure 6-21



The control options displayed on the applet window are displayed in predefined locations on the **Console** applet.

Document, Interact, Query and Manage 1 for Window Your Active Directory & Windows www.visualclick.com View Online Demos More about the Console Double Click to Run **Right Click to Edit** Assess AD/NTFS Security 🌂 [Request the report you need here] Computer Accounts with no password reset for past 45 days + cleanup → 🥥 Query and Search AD K Document Computer Details HelpDesk Examples 🌂 Document Group Membership AD User Maintenance K Document Group Membership #2 Examine Servers/Disks 🌂 Document Groups that are members 🌂 Enter your own LDAP Query - optionally search via Global Catalog Launch Designer 🌂 Find Duplicate AD Object Names ③ Request Quote KFind User Object Ownership [™] Find Users created in past × days Securit 🌂 Last Logon Date and Time for Computer Accounts 🌂 Raw AD Object View

Figure 6-22

Table 6-1. Control Options

Option #	Options Name	Purpose
1	More about Console	Access the "More About The Console" pop-up.
2	Right Click to Customize	Displays the "Double Click to Run" and "Right Click to Edit" texts.
3	Version	Displays the DSRAZOR version number.
4	BitMap Graphic	Chooses the .BMP file displayed on the Console.

In the above table, options 1, 2, and 3 are the associated Text controls on the **Console** window.

- 4 Right-click on the Text Controls to edit these options.
- **NOTE:** The BitMap graphic option is simply a BitMap control. You can add any number of BitMap controls to the **Console** window, but only the **last** bitmap you add will be displayed in the **Console** applet.

In the **Console** applet, the bitmap must have the dimensions of 247x53 pixels or less; otherwise, it will be cropped to fit.

- **NOTE:** The Version field is very short; it has only enough room for the few characters that you see. Just like the BitMap option, it will also be cropped if the string is too long.
- 5 Select the BitMap control. Hold the Ctrl key down and select the "More about the Console" hyperlink and the "Double Click to Run / Right Click to Edit" Text controls. With all three of these controls selected, either:
 - Click Edit | Delete

OR

• Click the **Cut** icon.



6 When prompted by the **Delete the selected controls?** dialog, click **Yes**.

- 7 To test your changes, either:
 - Select File | Test Drive

OR

• Click the **Test Drive** icon.



Figure 6-25

🂐 Cons	ole [DSRAZOR]		
V	îsual Click		
V	ww.visualclick.com		4.3c
- > 🥥	Assess AD/NTFS Security	🛛 🌂 [Request the report you need here]	
٩	Query and Search AD	Accounts that are disabled	
٨	HelpDesk Examples	Accounts that are locked or expired	
٢	AD User Maintenance	Accounts that have never logged on Accounts that never expire	
٨	Examine Servers/Disks	KAccounts unused for past 30 days	
٨	Launch Designer	Accounts unused for X days	
٨	Request Quote	≪Accounts where last logon failed	
٢	Exit	 Accounts with Dialin permission Accounts with Password problems ACL Documentation per AD object ACL Documentation per File System Object 	
-			>

- 8 Click **Exit** to close the **Console** and return to the **Designer**.
- 9 From the **Designer**, click **File** | **Exit**.
- **10** When prompted by the **Save changes to resource file DEFAULTW.DSR?** dialog, click **No**.

Glossary

Applets

DSRAZOR for Windows comes with applets (small applications) that network Administrators can use or customize to perform Windows network management tasks. Administrators can also create applets using DSRAZOR. DSRAZOR applets consist of windows, controls, services, and rules. All DSRAZOR applets have a .DSR extension.

Console

A graphical interface in DSRAZOR that allows Administrators to launch pre-designed applets. Applets are grouped by functional category in the Console menu.

Controls

The elements of an applet that hold and interact with data. The services assigned to a control determine the control's functionality. Controls can use data from one control (the primary control) for the functions in another control (secondary control); any number or combination of controls can be connected in an applet. DSRAZOR provides the following controls: Dropdown List, ListView, TreeView, Group Box, BitMap, Button, Text, Check Box, and Edit Text.

Designer

A graphical interface in DSRAZOR that allows Administrators to create applets or modify the pre-fabricated applets, using a drag-and-drop, point-and-click development environment.

Manual Entry

Text that an Administrator enters to designate objects or attributes from an Active Directory Domain while working with a DSRAZOR service in the **Designer**.

Rules

Elements of an applet that act as filters applied to the results of a service, thus allowing Administrators to further customize applets. In DSRAZOR, rules are Boolean and can be compound.

Server Cleanup Message

A message displayed by an applet after it completes a function requiring it to open a connection to an unattached file server. Allows user to choose whether to disconnect from or stay connected to all file server connections opened by the applet. This can be turned off for applets that you want to automate.

Services

Elements of an applet that change or query elements of Active Directory. The services assigned to a control determine the control's functionality. DSRAZOR provides the following services: Listing, Display, Button, Edit, and Check Box.

Template

Any applet can be designated to serve as the template for new applets. Once designated, the template provides the windows and controls displayed in the Designer when a new applet is started. If cleared, the template reverts to the default (a window control with a TreeView control and two Button controls).

Test Drive

A menu item and toolbar button in the Designer that allows Administrators to test the current applet.

Token

A small text file with a **.TKN** extension that authorizes the use of DSRAZOR.

Update Interval Seconds

A feature of some controls' services that allows Administrators to set the interval at which data for the current control is refreshed. If set to zero, the control's data will not be refreshed.

Viewer

A graphical interface in DSRAZOR that displays all applets in the DSRAZOR installation directory by their **.DSR** filenames and allows Administrators to execute each of the applets on an individual basis. Administrators can filter the applets displayed in the Viewer by the types of services they use, the number of windows they include, and whether they have comments.

Windows

Elements of an applet that can have any number of windows that display when different applet utilities are called for. Windows contain controls, whose functionality is defined by services and rules.

Windows/Control Map

Lists all windows, controls, services, and rules used in the current applet.

Glossary

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