

# USER GUIDE

# for Authentication



# R3000IR Model: R3000

Release 2.1.10 • Manual Version 1.01

#### **R3000 INTERNET FILTER AUTHENTICATION USER GUIDE**

© 2008 8e6 Technologies All rights reserved. 828 W. Taft Ave., Orange, CA 92865, USA

Version 1.01, published September 2008 To be used with R3000<sup>IR</sup> User Guide version 1.01 for software release 2.1.10

Printed in the United States of America

This document may not, in whole or in part, be copied, photocopied, reproduced, translated, or reduced to any electronic medium or machine readable form without prior written consent from 8e6 Technologies.

Every effort has been made to ensure the accuracy of this document. However, 8e6 Technologies makes no warranties with respect to this documentation and disclaims any implied warranties of merchantability and fitness for a particular purpose. 8e6 Technologies shall not be liable for any error or for incidental or consequential damages in connection with the furnishing, performance, or use of this manual or the examples herein. Due to future enhancements and modifications of this product, the information described in this documentation is subject to change without notice.

The latest version of this document can be obtained from http://www.8e6.com/docs/ir\_r3000\_auth2\_ug.pdf.

#### Trademarks

Other product names mentioned in this manual may be trademarks or registered trademarks of their respective companies and are the sole property of their respective manufacturers.

Part# IR-R3.2.1\_AUG\_v1.01-0809

# CONTENTS

About this User Guide	
low to Use this User Guide	
Conventions	
Terminology	
iltering Elements	
Group Types	
Global Group	
IP Groups	
NT Domain Groups	1
LDAP Domain Groups	1
Filtering Profile Types	1
Static Filtering Profiles	14
Master IP Group Filtering Profile	1 <sub>'</sub>
IP Sub-Group Filtering Profile	1 <sub>'</sub>
Individual IP Member Filtering Profile	
Active Filtering Profiles	1
Global Filtering Profile	1!
NT/LDAP Group Filtering Profile	1
NT/LDAP Member Filtering Profile	1!
LDAP Container Filtering Profile	
Override Account Profile	10
Time Profile	
Lock Profile	10
Filtering Profile Components	1
Library Categories	1
8e6 Supplied Categories	
Custom Categories	
Service Ports	1
Rules	
Minimum Filtering Level	1
Filter Settings	20
Filtering Rules	2

	R3000 Authentication Protocols	
	R3000 Authentication Tiers and Options	24
	R3000 authentication tiers	24
	R3000 authentication options	25
	Authentication Solution Compatibility	
	Authentication System Deployment Options	
	Ports for Authentication System Access	
	Configuring the R3000 for Authentication	
	Configuration procedures	
	System section	
	Group section	32
Спур	TER 2: NETWORK SETUP	33
UNAP	TER 2. NETWORK SETUP	
En	vironment Requirements	
	Workstation Requirements	
	Administrator	
	End User	
	Network Requirements	34
Set	t up the Network for Authentication	
	Specify the operation mode	
	Specify the subnet mask, IP address(es)	
	Invisible mode	
	Router or firewall mode	
	Enable authentication, specify criteria	
	Net use based authentication	
	Web-based authentication	43
	Enter network settings for authentication	46
	Create an SSL certificate	
	Create, Download a Self-Signed Certificate	
	Create, Upload a Third Party Certificate	
	Create a Third Party Certificate	
	Upload a Third Party Certificate	
	Download a Third Party Certificate	
	View log results	
	Specify block page settings	
	Block Page Authentication	
	Block page	
	User/Machine frame	
	Standard Links	60

	Optional Links	61
(	Options page	62
	Option 1	63
	Option 2	64
	Option 3	
	mon Customization	
	Enable, disable features	
Auth	entication Form Customization	69
F	Preview sample Authentication Request Form	71
Bloc	k Page Customization	73
F	Preview sample block page	75
Set up Gro	up Administrator Accounts	77
Add Sub	Admins to manage groups, users	77
	a group administrator account	
Upda	ate the group administrator's password	78
Dele	te a group administrator account	79
CHAPTER 3:	NT AUTHENTICATION SETUP	80
Join the N	T Domain	00
		00
Create an I	NT Domain	82
Create an N Add an N	NT Domain	
Create an N Add an N Refresh	<b>NT Domain</b> NT domain the NT branch	<b>82</b> 
<b>Create an I</b> Add an N Refresh View or r	NT Domain NT domain the NT branch modify NT domain details	<b>82</b> 82 83 84
Create an N Add an N Refresh View or r Dom	NT Domain NT domain the NT branch modify NT domain details nain Settings	<b>82</b> 82 83 84 84
Create an N Add an N Refresh View or r Dom Defa	NT Domain NT domain the NT branch modify NT domain details nain Settings ault Rule	<b>82</b> 82 83 84 84 84 86
Create an N Add an N Refresh View or n Dom Defa Delete an	NT Domain NT domain the NT branch modify NT domain details nain Settings ault Rule n NT domain	<b>82</b> 82 83 84 84 86 87
Create an N Add an N Refresh View or r Dom Defa Delete at	NT Domain NT domain the NT branch modify NT domain details nain Settings ault Rule n NT domain Domain Groups, Members	
Create an N Add an N Refresh View or n Dom Defa Delete an Set up NT N Add NT g	NT Domain NT domain the NT branch modify NT domain details hain Settings ault Rule n NT domain Domain Groups, Members groups, members to the tree	82 82 83 84 84 86 87 88 88
Create an N Add an N Refresh View or n Dom Defa Delete an Set up NT I Add NT g Specify a	NT Domain NT domain the NT branch modify NT domain details hain Settings ault Rule n NT domain Domain Groups, Members groups, members to the tree a group's filtering profile priority	
Create an N Add an N Refresh View or n Dom Defa Delete an Set up NT I Add NT g Specify a Manually	NT Domain         NT domain         the NT branch         modify NT domain details         main Settings         ault Rule         n NT domain         Domain Groups, Members         groups, members to the tree         a group's filtering profile priority         y add a user's name to the tree	
Create an N Add an N Refresh View or n Dom Defa Delete an Set up NT N Add NT g Specify a Manually Manually	NT Domain NT domain the NT branch modify NT domain details hain Settings ault Rule n NT domain Domain Groups, Members groups, members to the tree groups, members to the tree y add a user's name to the tree y add a group's name to the tree	
Create an N Add an N Refresh View or n Dom Defa Delete an Set up NT N Add NT g Specify a Manually Manually	NT Domain         NT domain         the NT branch         modify NT domain details         main Settings         ault Rule         n NT domain         Domain Groups, Members         groups, members to the tree         a group's filtering profile priority         y add a user's name to the tree	
Create an N Add an N Refresh View or n Dom Defa Delete an Set up NT N Add NT g Specify a Manually Upload a	NT Domain NT domain the NT branch modify NT domain details hain Settings ault Rule n NT domain Domain Groups, Members groups, members to the tree groups, members to the tree y add a user's name to the tree y add a group's name to the tree	
Create an N Add an N Refresh View or n Dom Defa Delete an Set up NT I Add NT g Specify a Manually Upload a	NT Domain         NT domain         the NT branch         modify NT domain details         main Settings         ault Rule         n NT domain <b>Domain Groups, Members</b> groups, members to the tree         a group's filtering profile priority         y add a user's name to the tree         a file of filtering profiles to the tree         LDAP AUTHENTICATION SETUP	
Create an M Add an M Refresh View or r Dom Defa Delete an Set up NT H Add NT ( Specify a Manually Upload a CHAPTER 4:	NT Domain         NT domain         the NT branch         modify NT domain details         main Settings         ault Rule         n NT domain         Domain Groups, Members         groups, members to the tree         a group's filtering profile priority         y add a user's name to the tree         a file of filtering profiles to the tree	82 82 83 84 84 86 87 88 

Refresh the LDAP branch	98
View, modify, enter LDAP domain details	99
LDAP Server Type	. 100
Group Objects	. 101
User Objects	. 103
Address Info	. 104
Account Info	. 107
SSL Settings	. 109
Alias List	. 111
Default Rule	
LDAP Backup Server Configuration	. 115
Configure a backup server	
Modify a backup server's configuration	
Delete a backup server's configuration	
Delete a domain	. 121
Set up LDAP Domain Groups, Members	
Add LDAP groups, users to the tree	
Perform a basic search	
Options for search results	
Apply a filtering rule to a profile	
Delete a rule	
Specify a group's filtering profile priority	
Manually add a user's name to the tree	
Manually add a group's name to the tree	
Upload a file of filtering profiles to the tree	129
	122
CHAPTER 5: ASSIGN/SET UP GROUPS, MEMBERS	IJZ
Assign Sub Admin to NT/LDAP Entity	122
Assign Sub Admin to NT/EDAP Entity	132
Create and Maintain Filtering Profiles	135
Add a group member to the tree list	
Add or maintain an entity's profile	
Category Profile	
Redirect URL .	
Filter Options .	
Add an Exception URL to the profile	
Block URL frame	
ByPass URL frame	. 144
Apply settings	. 144

Create a Time Profile for the entity Add a Time Profile Remove an entity's profile from the tree	. 145
CHAPTER 6: AUTHENTICATION DEPLOYMENT	151
Test Authentication Settings Test Web-based authentication settings Step 1: Create an IP Group, "test" Step 2: Create a Sub-Group, "workstation" Step 3: Set up "test" with a 32-bit net mask Step 4: Give "workstation" a 32-bit net mask Step 5: Block everything for the Sub-Group Step 6: Use Authentication Request Page for redirect URL Step 7: Disable filter options Step 8: Attempt to access Web content Test net use based authentication settings	. 153 . 153 . 154 . 155 . 156 . 157 . 158 . 159 . 160
Activate Authentication on the Network         Activate Web-based authentication for an IP Group         Step 1: Create a new IP Group, "webauth"         Step 2: Set "webauth" to cover users in range         Step 3: Create an IP Sub-Group         Step 4: Block everything for the Sub-Group         Step 5: Use Authentication Request Page for redirect URL         Step 6: Disable filter options         Step 7: Set Global Group to filter unknown traffic         Activate Web-based authentication for the Global Group         Step 1: Exclude filtering critical equipment         Step 1A: Block Web access, logging via Range to Detect         Range to Detect Settings         Range to Detect Setup Wizard         Step 1B: Block Web access via IP Sub-Group profile         Step 12: Modify the Global Group Profile         Step 12: Modify the 3-try login script         Step 2: Modify the Global Group Profile	<b>163</b> . 164 . 165 . 166 . 168 . 169 . 170 . 171 . 176 . 177 . 177 . 177 . 185 . 188 . 192 . 192
	105

#### CHAPTER 7: TECHNICAL SUPPORT ...... 195

Hours	195
Contact Information Domestic (United States) International E-Mail Office Locations and Phone Numbers 8e6 Corporate Headquarters (USA) 8e6 Taiwan	
Support Procedures	197
APPENDIX A: AUTHENTICATION OPERATIONS	198
Authentication Tier Selections           Tier 1: Net use based authentication           Tier 2, Tier 3: Web-based authentication	
Tier 1: Single Sign-On Authentication	
Net use based authentication process	
Re-authentication process	
Tier 1 authentication methods	
SMB protocol	
SMB Signing LDAP protocol	
Name resolution methods	
Configuring the authentication server	
Login scripts	
Enter net use syntax in the login script	
View login script on the server console	
Block page authentication login scripts	
LDAP server setup rules	
Tier 2: Time-based, Web Authentication	
Tier 2 implementation in an environment	
Tier 2 Script	
Tier 1 and Tier 2 Script	211
Tier 3: Session-based, Web Authentication	213
8e6 Authenticator	214

Environment requirements	214
Minimum system requirements	
Recommended system requirements	
Workstation requirements	
Work flow in a Windows environment	
8e6 Authenticator configuration priority	
8e6 Authenticator configuration syntax	
Sample command line parameters	218
Sample configuration file	218
Sample R3000 configuration update packet 'PCF	G'218
Table of parameters	219
Novell eDirectory Agent	222
Environment requirements	
Novell eDirectory servers	
Client workstations .	
Novell clients	
Novell eDirectory setup	
R3000 setup and event logs	224
Active Directory Agent	005
Active Directory Agent	225
Product feature overview	225
Product feature overview	225
	225 226
Product feature overview Windows server requirements	225 226 226
Product feature overview Windows server requirements Work flow in a Windows environment Set up AD Agent	225 226 226 227
Product feature overview Windows server requirements . Work flow in a Windows environment Set up AD Agent Step 1: AD Agent settings on the R3000	225 226 226 227 227
Product feature overview Windows server requirements . Work flow in a Windows environment Set up AD Agent Step 1: AD Agent settings on the R3000 Step 2: Configure the domain, service account	225 226 226 227 227 229
Product feature overview Windows server requirements Work flow in a Windows environment Set up AD Agent Step 1: AD Agent settings on the R3000 Step 2: Configure the domain, service account Step 3: AD Agent installation on Windows server	225 226 226 227 227 227 229 230
Product feature overview Windows server requirements Work flow in a Windows environment Set up AD Agent Step 1: AD Agent settings on the R3000 Step 2: Configure the domain, service account Step 3: AD Agent installation on Windows server Step 3A: Download DCAgent.msi	225 226 227 227 227 229 230 230
Product feature overview Windows server requirements Work flow in a Windows environment Set up AD Agent Step 1: AD Agent settings on the R3000 Step 2: Configure the domain, service account Step 3: AD Agent installation on Windows server Step 3A: Download DCAgent.msi Step 3B: Run AD Agent installation setup	225 226 226 227 227 229 230 230 230
Product feature overview Windows server requirements	225 226 227 227 229 230 230 230 233
Product feature overview Windows server requirements . Work flow in a Windows environment Set up AD Agent Step 1: AD Agent settings on the R3000 Step 2: Configure the domain, service account Step 3: AD Agent installation on Windows server Step 3A: Download DCAgent.msi Step 3B: Run AD Agent installation setup Step 3C: Run AD Agent configuration wizard Use the Active Directory Agent console	225 226 227 227 227 229 230 230 230 233 238
Product feature overview Windows server requirements . Work flow in a Windows environment Set up AD Agent Step 1: AD Agent settings on the R3000 Step 2: Configure the domain, service account Step 3: AD Agent installation on Windows server Step 3A: Download DCAgent.msi Step 3B: Run AD Agent installation setup Step 3C: Run AD Agent configuration wizard Use the Active Directory Agent console Activity tab	225 226 227 227 227 229 230 230 230 233 238 238
Product feature overview Windows server requirements . Work flow in a Windows environment Set up AD Agent Step 1: AD Agent settings on the R3000 Step 2: Configure the domain, service account Step 3: AD Agent installation on Windows server Step 3A: Download DCAgent.msi Step 3B: Run AD Agent installation setup Step 3C: Run AD Agent configuration wizard Use the Active Directory Agent console Activity tab Sessions tab	225 226 226 227 227 229 230 230 230 233 238 238 241
Product feature overview Windows server requirements . Work flow in a Windows environment Set up AD Agent Step 1: AD Agent settings on the R3000 Step 2: Configure the domain, service account Step 3: AD Agent installation on Windows server Step 3A: Download DCAgent.msi Step 3B: Run AD Agent installation setup Step 3C: Run AD Agent configuration wizard Use the Active Directory Agent console Activity tab Sessions tab Session table spreadsheet	225 226 226 227 227 229 230 230 230 230 233 238 238 241 243
Product feature overview Windows server requirements . Work flow in a Windows environment Set up AD Agent Step 1: AD Agent settings on the R3000 Step 2: Configure the domain, service account Step 3: AD Agent installation on Windows server Step 3A: Download DCAgent.msi Step 3B: Run AD Agent installation setup Step 3C: Run AD Agent configuration wizard Use the Active Directory Agent console Activity tab Session table spreadsheet Session Properties window	225 226 226 227 229 230 230 230 230 233 238 238 238 241 243 244
Product feature overview Windows server requirements . Work flow in a Windows environment . Set up AD Agent . Step 1: AD Agent settings on the R3000 Step 2: Configure the domain, service account Step 3: AD Agent installation on Windows server Step 3A: Download DCAgent.msi Step 3B: Run AD Agent installation setup Step 3C: Run AD Agent configuration wizard Use the Active Directory Agent console Activity tab Sessions tab Session table spreadsheet Session Properties window	225 226 226 227 229 230 230 230 230 233 238 238 241 243 244 245
Product feature overview Windows server requirements . Work flow in a Windows environment . Set up AD Agent . Step 1: AD Agent settings on the R3000 Step 2: Configure the domain, service account Step 3: AD Agent installation on Windows server Step 3A: Download DCAgent.msi Step 3B: Run AD Agent installation setup Step 3C: Run AD Agent configuration wizard Use the Active Directory Agent console Activity tab Session table spreadsheet Session Properties window Workstation Interactive Probe window	225 226 226 227 227 229 230 230 230 230 230 233 238 241 243 244 245 247
Product feature overview Windows server requirements . Work flow in a Windows environment Set up AD Agent Step 1: AD Agent settings on the R3000 Step 2: Configure the domain, service account Step 3: AD Agent installation on Windows server Step 3A: Download DCAgent.msi Step 3B: Run AD Agent installation setup Step 3C: Run AD Agent configuration wizard Use the Active Directory Agent console Activity tab Session table spreadsheet Session Properties window Workstation Interactive Probe window Active Directory Agent Configuration window Active Directory Agent Configuration window Service page	225 226 226 227 227 229 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 230 238 241 244 244 245 247 247 249
Product feature overview Windows server requirements . Work flow in a Windows environment . Set up AD Agent . Step 1: AD Agent settings on the R3000 Step 2: Configure the domain, service account Step 3: AD Agent installation on Windows server Step 3A: Download DCAgent.msi Step 3B: Run AD Agent installation setup Step 3C: Run AD Agent configuration wizard Use the Active Directory Agent console Activity tab Session table spreadsheet Session Properties window Workstation Interactive Probe window	225 226 226 227 227 229 230 230 230 230 230 238 238 238 238 241 243 245 247 249 250

Add a satellite Remove a satellite Configure a satellite Check the status of a satellite Options page Notifications page	252 253 255 257
APPENDIX B: DISABLE SMB SIGNING REQUIREMENTS	s 261
SMB Signing Compatibility	
Disable SMB Signing in Windows 2003	
APPENDIX C: OBTAIN, EXPORT AN SSL CERTIFICATE	267
Export an Active Directory SSL Certificate	
Export a Novell SSL Certficate	275
Obtain a Sun ONE SSL Certificate	277
APPENDIX D: LDAP SERVER CUSTOMIZATIONS	278
OpenLDAP Server Scenario Not all users returned in User/Group Browser	
APPENDIX E: USER/GROUP FILE FORMAT AND RULES	s 279
Username Formats	
Rule Criteria	
File Format: Rules and Examples NT User List Format and Rules NT Group List Format and Rules NT Quota Format and Rules LDAP User List Format and Rules	284 285 286

LDAP Group List Format and Rules	
APPENDIX F: OVERRIDE POP-UP BLOCKERS	290
Yahoo! Toolbar Pop-up Blocker If pop-up blocking is enabled Add override account to the white list	
Google Toolbar Pop-up Blocker If pop-up blocking is enabled Add override account to the white list	
AdwareSafe Pop-up Blocker If pop-up blocking is enabled Temporarily disable pop-up blocking	
Mozilla Firefox Pop-up Blocker Add override account to the white list	
Windows XP SP2 Pop-up Blocker         Set up pop-up blocking         Use the Internet Options dialog box         Use the IE toolbar         Temporarily disable pop-up blocking         Add override account to the white list         Use the IE toolbar         Use the IE toolbar         Use the IE toolbar         Use the Information Bar         Set up the Information Bar         Access your override account	296 297 297 297 298 298 298 299 299 299
Definitions	301
INDEX	309

# **CHAPTER 1: INTRODUCTION**

The R3000 Authentication User Guide contains information about setting up authentication on the network.

# About this User Guide

This user guide addresses the network administrator designated to configure and manage the R3000 server on the network.

Chapter 1 provides information on how to use this user guide, and also includes an overview of filtering components and authentication solutions.

Chapters 2, 3, and 4 describe the R3000 Administrator console entries that must be made in order to prepare the network for using authentication for NT and/or LDAP domains.



**NOTE**: Refer to the R3000IR Quick Start Guide for information on installing the R3000 on the network. This document also provides information on how to access the R3000 console to perform the initial installation setup defined in Chapter 2: Network Setup.

After all settings have been made, authentication is ready to be used on the network. Chapter 5 explains how to assign groups and members for management by Sub Admin group administrators, and how group administrators create and maintain filtering profiles for entities in their assignment.

Chapter 6 outlines the step you need to take to test and to activate your settings before deploying authentication on the network.

Chapter 7 provides support information. Appendices at the end of this user guide feature instructions on authentication operations; steps to modify the SMB protocol to disable SMB Signing requirements; information on how to obtain or export an SSL certificate and upload it to the R3000; notes

on customizations to make on specified LDAP servers; filtering profile file components and setup; tips on how to override pop-up windows with pop-up blocker software installed; a glossary on authentication terms, and an index.

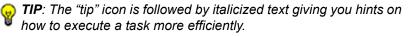
# How to Use this User Guide

## Conventions

The following icons are used throughout this user guide:



NOTE: The "note" icon is followed by italicized text providing additional information about the current subject.





WARNING: The "warning" icon is followed by italicized text cautioning you about making entries in the application, executing certain processes or procedures, or the outcome of specified actions.

# Terminology

The following terms are used throughout this user guide. Sample images (not to scale) are included for each item.

 alert box - a message box that opens in response to an entry you made in a dialog box, window, or screen. This box often contains a button (usually

Message	×
Successfully saved Alert email(s).	
[OK]	
Java Applet Window	

labeled "OK") for you to click in order to confirm or execute a command.

 button - an object in a dialog box, window, or screen that can be clicked with your mouse to execute a command.

<u>A</u> pply	

- checkbox a small square in a dialog box, window, or screen used for indicating whether or not you wish to select an option. This object allows you to toggle between two choices. By clicking in this box, a check mark or an "X" is placed, indicating that you selected the option. When this box is not checked, the option is not selected.
- dialog box a box that opens in response to a command made in a window or screen, and requires your input. You must choose an option by

Select an Option
Are you sure you want to save the profile?
Yes
Java Applet Window

clicking a button (such as "Yes" or "No", or "Next" or "Cancel") to execute your command. As dictated by this box, you also might need to make one or more entries or selections prior to clicking a button.

 field - an area in a dialog box, window, or screen that either accommodates your data

Name	СНАТ

entry, or displays pertinent information. A text box is a type of field.

 frame - a boxed-in area in a dialog box, window, or screen that includes a group of objects such as fields, text boxes, list boxes, buttons, radio buttons, check-

Page Content				
🗹 Basic				
🗖 Filter Info				
🗌 Override Account				

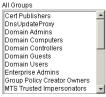
boxes, and/or tables. Objects within a frame belong to a specific function or group. A frame often is labeled to indicate its function or purpose.

 grid - an area in a frame that displays rows and columns of

	Date	Filename	Content	Comment
	Jul 22, 2003	lib1.tar.gz	LIBRARY_ONLY	backup old library
- Ja	Jul 23, 2003	config3.tar.gz	CONFIG_ONLY	backup old configurations
- [	Jul 22, 2003	config1.tar.gz	CONFIG_ONLY	testing
	Jul 22, 2003	both.tar.gz	CONFIG_AND_LIBRARY	backup library and configs

data, as a result of various processes. This data can be reorganized in the R3000 console, by changing the order of the columns.

- list box an area in a dialog box, window, or screen that accommodates and/or displays entries of items that can be added or removed.
- navigation panel the panel that displays at the left of a screen. This panel can contain links that can be clicked to open windows or dialog boxes at the right of the screen. One or more tree lists also can display in this panel. When an item in the tree list is doubleclicked, the tree list opens to reveal items that can be selected.





• pop-up box or pop-up window - a box or window that opens after you click a button in a dialog box, window, or screen. This box or window may display infor-



mation, or may require you to make one or more entries. Unlike a dialog box, you do not need to choose between options.

pull-down menu - a field in a dialog box, window, or screen

that contains a down-arrow to the right. When you click the arrow, a menu of items displays from which you make a selection.

- radio button a small, circular object
   On O Off
   in a dialog box, window, or screen
   used for selecting an option. This object allows you to
   toggle between two choices. By clicking a radio button, a
   dot is placed in the circle, indicating that you selected the
   option. When the circle is empty, the option is not
   selected.
- screen a main object of an application that displays across your monitor. A screen can contain panels, windows, frames, fields, tables, text boxes, list boxes, icons, buttons, and radio buttons.

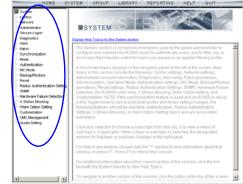


 sub-topic - a subset of a main topic that displays as a menu item for the topic. The menu of subtopics opens when a perti-

⊡Category Groups ⊡Adult Content	The Library section is cc
Child Pornography	Library Details
Explicit Art Obscene/Tasteles	URLs
Pornography/Adu	URL Keywords
R Rated	
	Search Engine Keywords
÷	In this costion include: I

nent topic link in the left panel—the navigation panel—of a screen is clicked. If a sub-topic is selected, the window for that sub-topic displays in the right panel of the screen, or a pop-up window or an alert box opens, as appropriate.

- text box an area in a dialog box, window, or screen that accommodates your data entry. A text box is a type of field. (See "field".)
- **topic** a topic displays as a link in the left panel—the navigation panel—of a screen. By clicking the link for a topic, the window for that topic displays in the right panel



of the screen, or a menu of sub-topics opens.

Group ☐ ③ Global Group ☐ □ ☐ IP\_

Group Global Group

tech

bkupserver

💷 cpike

- tree a tree displays in the navigation panel of a screen, and is comprised of a hierarchical list of items. An entity associated with a branch of the tree is preceded by a plus (+) sign when the branch is collapsed. By double-clicking the item, a minus (-) sign replaces the plus sign, and any entity within that branch of the tree displays. An item in the tree is selected by clicking it.
- window a window displays on a screen, and can contain frames, fields, text boxes, list boxes, buttons, checkboxes, and radio buttons. A window for a topic or sub-topic displays in the right panel of the screen. Other types



Apply

of windows include pop-up windows, login windows, or ones from the system such as the Save As or Choose file windows.

# **Filtering Elements**

Filtering operations include the following elements: groups, filtering profiles and their components, and rules for filtering.

# Group Types

In the Group section of the Administrator console, group types are structured in a tree format in the navigation panel. There are four group types in the tree list:

- Global Group
- IP groups
- NT domain groups
- LDAP domain groups

**NOTES**: If authentication is enabled, the global administrator who has all rights and permissions on the R3000 server—will see all branches of the tree: Global Group, IP, NT, and LDAP. If authentication is disabled, only the Global Group and IP branches will be seen.

A group administrator will only see entities assigned to him/her by the global administrator.

#### **Global Group**

The first group that must be set up is the global group,

represented in the tree structure by the global icon <sup>(B)</sup>. The filtering profile created for the global group represents the default profile to be used by all groups that do not have a filtering profile, and all users who do not belong to a group.

#### **IP Groups**

The IP group type is represented in the tree by the IP icon



. A master IP group is comprised of sub-group members

and/or individual IP members 💻

The global administrator adds master IP groups, adds and maintains override accounts at the global level, and establishes and maintains the minimum filtering level.

The group administrator of a master IP group adds subgroup and individual IP members, override account and time profiles, and maintains filtering profiles of all members in the master IP group.

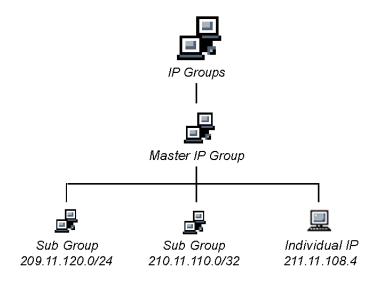


Fig. 1-1 IP diagram with a sample master IP group and its members

#### **NT Domain Groups**

An NT domain on a network server is comprised of Windows NT groups and their associated members (users), derived from profiles on the network's domain controller.

The NT group type is represented in the tree by the NT icon

📲 . This branch will only display if authentication is enabled. Using the tree menu, the global administrator adds

and maintains NT domains and assigns designated group administrators (Sub Admins) access to entities (nodes) within that domain.

The group administrator creates and maintains filtering

profiles for groups 🚔 and/or users 🚔 assigned to him/

If users belong to more than one group, the global administrator sets the priority for group filtering.

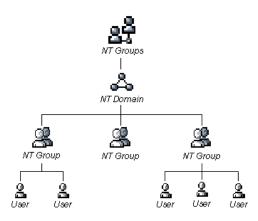


Fig. 1-2 NT domain diagram, with sample groups and members

#### LDAP Domain Groups

An LDAP (Lightweight Directory Access Protocol) domain on a network server is comprised of LDAP groups and their associated members (users), derived from profiles on the network's authentication server.

The LDAP group type is represented in the tree by the

LDAP icon 🖳 This branch will only display if authentication is enabled. Using the tree menu, the global adminis-

trator adds and maintains LDAP domains  $\Box_{a}$ , and assigns designated group administrators (Sub Admins) access to specific entities (nodes) within that domain. The group administrator creates and maintains filtering profiles for entities assigned to him/her. For Active Directory or "Other" server types, these entities include primary or static

groups 🔄, users 🖁, or containers 🎔. For Novell eDirectory, SunOne, Sun IPlanet, or Netscape Directory server

types, these entities also include dynamic groups 强. If users belong to more than one group, the global administrator sets the priority for group filtering.

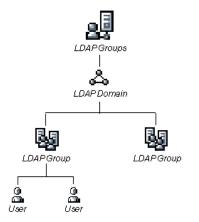


Fig. 1-3 LDAP domain diagram, with sample groups and members

# Filtering Profile Types

A filtering profile is used by all users who are set up to be filtered on the network. This profile consists of rules that dictate whether a user has access to a specified Web site or service on the Internet.

The following types of filtering profiles can be created, based on the set up in the tree menu of the Group section of the console:

#### **Global Group**

• **global filtering profile** - the default filtering profile positioned at the base of the hierarchical tree structure, used by end users who do not belong to a group.

#### IP group (Master Group)

- **master group filtering profile** used by end users who belong to the master group.
- **master time profile** used by master group users at a specified time.

#### **IP** group member

- **sub-group filtering profile** used by a sub-group member.
- **individual filtering profile** used by an individual IP group member.
- **time profile** used by a sub-group/individual IP group member at a specified time.

#### Authentication filtering profiles

- NT/LDAP group filtering profile used by an NT or LDAP group.
- NT/LDAP member filtering profile used by an NT or LDAP group member.

- **LDAP container filtering profile** used by an LDAP container in an LDAP domain.
- **NT/LDAP time profile** used by an NT or LDAP domain/ group/member at a specified time.

#### Other filtering profiles

• **override account profile** - set up in either the global group section or the master group section of the console.

**NOTE**: An override account set up in the master IP group section of the R3000 console takes precedence over an override account set up in the global group section of the console.

- **lock profile** set up under X Strikes Blocking in the Filter Options section of the profile.
- **Radius profile** used by end users on a Radius accounting server if the Radius server is connected to the R3000 and the Radius authentication feature enabled.
- **TAR profile** used if a Threat Analysis Reporter (TAR) server is connected to the R3000 and an end user is locked out by TAR when attempting to access blocked content in a library category.

#### **Static Filtering Profiles**

Static filtering profiles are based on fixed IP addresses and include profiles for master IP groups and their members.

#### **Master IP Group Filtering Profile**

The master IP group filtering profile is created by the global administrator and is maintained by the group administrator. This filtering profile is used by members of the group including sub-group and individual IP group members—and is customized to allow/deny users access to URLs, or warn users about accessing specified URLs, to redirect users to another URL instead of having a block page display, and to specify usage of appropriate filter options.

#### **IP Sub-Group Filtering Profile**

An IP sub-group filtering profile is created by the group administrator. This filtering profile applies to end users in an IP sub-group and is customized for sub-group members.

#### Individual IP Member Filtering Profile

An individual IP member filtering profile is created by the group administrator. This filtering profile applies to a specified end user in a master IP group.

#### **Active Filtering Profiles**

Active filtering profiles include the global group profile, NT/ LDAP authentication profile, override account profile, time profile, and lock profile.

#### **Global Filtering Profile**

The global filtering profile is created by the global administrator. This profile is used as the default filtering profile. The global filtering profile consists of a customized profile that contains a list of library categories to block, open, add to a white list, or assign a warn setting, and service ports that are configured to be blocked. A URL can be specified for use instead of the standard block page when users attempt to access material set up to be blocked. Various filter options can be enabled.

#### **NT/LDAP Group Filtering Profile**

An NT or LDAP group filtering profile is created by the group administrator assigned to the NT or LDAP group. This profile can be customized to allow/deny group users access to URLs, or warn users about accessing specified URLs, to redirect users to another URL instead of having the standard block page display, and to specify usage of appropriate filter options.

If users belong to more than one group, all groups to which they belong must be ranked to determine the priority each filtering profile takes over another.

#### **NT/LDAP Member Filtering Profile**

An NT or LDAP member filtering profile is created by the group administrator assigned to that member. This profile can be customized to allow/deny a user access to URLs, or warn a user about accessing specified URLs, to redirect the user to another URL instead of the standard block page, and to specify usage of appropriate filter options.

#### LDAP Container Filtering Profile

An LDAP container filtering profile is created by the group administrator assigned to that container. This profile can be customized to allow/deny users access to URLs, or warn users about accessing specified URLs, to redirect users to another URL instead of the standard block page, and to specify usage of appropriate filter options.

#### **Override Account Profile**

If any user needs access to a specified URL that is set up to be blocked, the global administrator or group administrator can create an override account for that user. This account grants the user access to areas set up to be blocked on the Internet.

#### **Time Profile**

A time profile is a customized filtering profile set up to be effective at a specified time period for designated users.

#### Lock Profile

This filtering profile blocks the end user from Internet access for a set period of time, if the end user's profile has the X Strikes Blocking filter option enabled and he/she has received the maximum number of strikes for inappropriate Internet usage.



**NOTE**: Refer to the R3000 User Guide for additional information on the Override Account Profile, Time Profile, and Lock Profile.

# Filtering Profile Components

Filtering profiles are comprised of the following components:

- **library categories** used when creating a rule, minimum filtering level, or filtering profile for the global group or any entity
- **service ports** used when setting up filter segments on the network, creating the global group (default) filtering profile, or establishing the minimum filtering level
- rules specify which library categories should be blocked, left open, assigned a warn setting, or white listed
- filter options specify which features will be enabled: X Strikes Blocking, Google/Yahoo!/Ask.com/AOL Safe Search Enforcement, Search Engine Keyword Filter Control, URL Keyword Filter Control
- **minimum filtering level** takes precedence over filtering profiles of entities who are using a filtering profile other than the global (default) filtering profile
- **filter settings** used by service ports, filtering profiles, rules, and the minimum filtering level to indicate whether users should be granted or denied access to specified Internet content

#### **Library Categories**

A library category contains a list of Web site addresses and keywords for search engines and URLs that have been set up to be blocked or white listed. Library categories are used when creating a rule, the minimum filtering level, or a filtering profile.

#### **8e6 Supplied Categories**

8e6 furnishes a collection of library categories, grouped under the heading "Category Groups" (excluding the "Custom Categories" group). Updates to these categories are provided by 8e6 on an ongoing basis, and administrators also can add or delete individual URLs within a specified library category.

#### **Custom Categories**

Custom library categories can be added by either global or group administrators. As with 8e6 supplied categories, additions and deletions can be made within a custom category. However, unlike 8e6 supplied categories, a custom category can be deleted.

٢

**NOTE**: 8e6 cannot provide updates to custom categories. Maintaining the list of URLs and keywords is the responsibility of the global or group administrator.

#### **Service Ports**

Service ports are used when setting up filter segments on the network (the range of IP addresses/netmasks to be detected by the R3000), the global (default) filtering profile, and the minimum filtering level.

When setting up the range of IP addresses/netmasks to be detected, service ports can be set up to be open (ignored). When creating the global filtering profile and the minimum filtering level, service ports can be set up to be blocked or filtered.

Examples of service ports that can be set up include File Transfer Protocol (FTP), Hyper Text Transfer Protocol (HTTP), Network News Transfer Protocol (NNTP), Secured HTTP Transmission (HTTPS), and Secure Shell (SSH).

#### Rules

A rule is comprised of library categories to block, leave open, assign a warn setting, or include in a white list. Access to an open library category can be restricted to a set number of minutes. Each rule that is created by the global administrator is assigned a number. A rule is selected when creating a filtering profile for an entity.

### **Minimum Filtering Level**

The minimum filtering level consists of library categories set up at the global level to be blocked or opened, and service ports set up to be blocked or filtered. If the minimum filtering level is created, it applies to all users in IP, NT, and LDAP groups, and takes precedence over filtering settings made for group and member filtering profiles.

The minimum filtering level does not apply to any user who does not belong to a group, and to groups that do not have a filtering profile established.

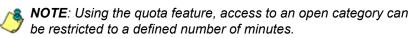


**NOTE**: If the minimum filtering level is not set up, global (default) filtering settings will apply instead.

#### **Filter Settings**

Categories and service ports use the following settings to specify how filtering will be executed:

- block if a category or a service port is given a block setting, users will be denied access to the item set up as "blocked"
- **open** if a category or the filter segment detected on the network is given an open (pass) setting, users will be allowed access to the item set up as "opened"



- **always allowed** if a category is given an always allowed setting, the category is included in the user's white list and takes precedence over blocked categories
- warn If a category is given a warn setting, a warning page displays for the end user to warn him/her that accessing the intended URL may be against established policies and to proceed at his/her own risk
- filter if a service port is given a filter setting, that port will use filter settings created for library categories (block or open settings) to determine whether users should be denied or allowed access to that port
- ignore if the filter segment detected on the network has a service port set up to be ignored, that service port will be bypassed

# Filtering Rules

**Individual User Profiles** - A user in an NT or LDAP domain can have only one individual profile set up per domain.

#### Filtering Levels Applied:

- 1. The global (default) filtering profile applies to any user under the following circumstances:
  - the user does not belong to a master IP group
  - the user has not been assigned a domain default profile from an NT or LDAP authentication domain
- If a minimum filtering level is defined, it applies to all master IP groups (and their members) and NT/LDAP groups who have been assigned filtering profiles after authenticating. The minimum filtering level combines with the user's profile to guarantee that categories blocked in the minimum filtering level are blocked in the user's profile.
- 3. For master IP group members:
  - a. A master IP group filtering profile takes precedence over the global profile.
  - b. A master IP group time profile takes precedence over the master IP group profile.
- 4. For IP sub-group members:
  - a. An IP sub-group filtering profile takes precedence over the master IP group's time profile.
  - b. An IP sub-group time profile takes precedence over the IP sub-group profile.
- 5. For individual IP members:
  - a. An individual IP member filtering profile takes precedence over the IP sub-group's time profile.
  - b. An individual IP member time profile takes precedence over the individual IP member profile.

- For NT/LDAP users, if a user is authenticated, settings for the user's group or individual profile from the NT/ LDAP domain are applied and take precedence over any IP profile.
  - a. If the user belongs to more than one group in an authentication domain, the profile for the user is determined by the order in which the groups are listed in the Group Priority list set by the global administrator. The user is assigned the profile for the group highest in the Group Priority list.

or of

**NOTE**: On an LDAP domain, if a user belongs to a container, that profile takes precedence over the group profile for that user.

- b. If a user has an individual profile set up, that profile supercedes all other profile levels for that user. The user can have only one individual profile in each domain.
- c. If the user has a time profile, that profile takes precedence over other profiles. A group time profile takes precedence over a domain time profile, and an individual time profile takes precedence over a group time profile.

<u></u>

**NOTE**: A Radius profile is another type of authentication profile and is weighted the same as NT/LDAP authentication profiles in the precedence hierarchy.

7. An override account profile takes precedence over an authentication profile or a time profile. This account may override the minimum filtering level—if the override account was set up in the master IP group tree, and the global administrator allows override accounts to bypass the minimum filtering level, or if the override account was set up in the global group tree.



**NOTE**: An override account set up in the master IP group section of the R3000 console takes precedence over an override account set up in the global group section of the console. 8. A lock profile takes precedence over all filtering profiles. This profile is set up under Filter Options, by enabling the X Strikes Blocking feature.

**NOTE**: A Threat Analysis Reporter (TAR) profile is another type of lock profile that is weighted the same as a lock profile in the precedence hierarchy.

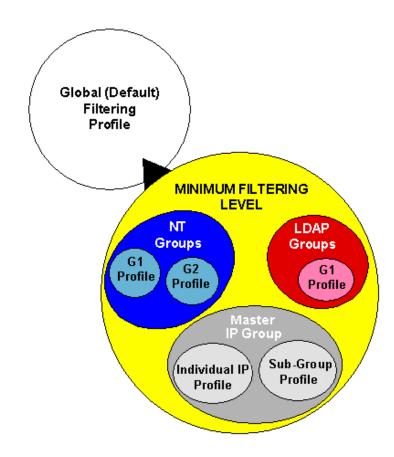


Fig. 1-4 Sample filtering hierarchy diagram

# **Authentication Solutions**

## **R3000 Authentication Protocols**

The R3000 supports two types of authentication protocols: Windows NT LAN Manager (NTLM), and Lightweight Directory Access Protocol (LDAP).

- NTLM authentication supports NTLM authentication running on any of the following servers: Windows NT 4.0, Windows 2000 Mixed Mode, and Windows 2003 Mixed Mode.
- LDAP authentication supports all versions of LDAP, such as Microsoft Active Directory, Novell eDirectory, Sun ONE, and OpenLDAP.

## R3000 Authentication Tiers and Options

#### **R3000** authentication tiers

The R3000 authentication architecture for NTLM and LDAP authentication protocols is comprised of three tiers. When using NT and/or LDAP authentication with the R3000, one of these three tiers is selected for use on the network, depending on the server(s) used on the network and the preferred authentication method(s) to be employed.

- Tier 1: Single sign-on, net use based authentication for NT or Active Directory domains.
- Tier 2: Time-based, Web authentication for NT and LDAP authentication methods.
- Tier 3: Session-based, Web authentication for NT or LDAP authentication method.

#### **R3000** authentication options

Depending on the setup of your network, any of the following authentication options can be enabled to ensure the end user is authenticated when logging into his/her workstation: 8e6 Authenticator, Active Directory Agent, and Novell eDirectory Agent.

NOTE: See Appendix A: Authentication Operations for information on using Tier 1, Tier 2, and Tier 3 on the network, and configuring 8e6 Authenticator, Novell eDirectory Agent, and Active Directory Agent.

## Authentication Solution Compatibility

Below is a chart representing the authentication solution compatibility for a single user:

	Tier1 net use	Tier 2 time based	Tier 3 session based	8e6 Authen- ticator	eDirec- tory Agent	Active Directory Agent
Tier 1		Yes	Yes	N/R	N/A	N/R
Tier 2	Yes		N/A	Yes	Yes	Yes
Tier 3	Yes	N/A		Yes	Yes	Yes
8e6 Authen- ticator	N/R	Yes	Yes		N/R	N/R
eDirectory Agent	N/A	Yes	Yes	N/R		N/A
Active Directory Agent	N/R	Yes	Yes	N/R	N/A	

KEY:

- N/A = Not Applicable
- N/R = Not Recommended

## Authentication System Deployment Options

Below is a chart representing authentication system deployment options on a network:

Authentication System	Single Sign-On (SSO)	Force Authentication
SunOne OpenLDAP CommuniGate Pro (Stalker)	None	Tier 2 or Tier 3
Windows NT 4.0	Tier 1 "net use"	Tier 2 or Tier 3
Windows 2000/2003 Server (both Mixed and Native modes)	Tier 1 "net use" 8e6 Authenticator AD Agent	Tier 2 or Tier 3
Novell eDirectory	8e6 Authenticator Novell eDirectory Agent (for eDirectory server version 8.7 and higher)	Tier 2 or Tier 3
Windows 2000/2003 Server and Novell eDirectory Mixed environment	8e6 Authenticator Novell eDirectory Agent AD Agent	Tier 2 or Tier 3

## Ports for Authentication System Access

The following ports should be used for authentication system access:

Туре	No.	Function
TCP	8081	Used between the R3000's transmitting inter- face and the SSL block page for Tier 2 or Tier 3 authentication.
TCP	836	Used between the R3000's Virtual IP address and Java applet for Tier 3 authentication.
TCP	139	Used between the R3000 and workstations requiring Tier 1 or Tier 3 authentication.
TCP/ UDP	137	Used between the R3000 and workstations requiring Tier 1 authentication.
LDAP	389	Used for communicating with domain control- lers in order to bind with them so that user/ group information can be queried/accessed.
LDAPS	636	Used for communicating with domain control- lers in order to bind with them so that user/ group information can be queried/accessed.

## Configuring the R3000 for Authentication

#### **Configuration procedures**

When configuring the R3000 server for authentication, settings must be made in System and Group windows in the Administrator console.



**NOTES**: If the network has more than one domain, the first one you add should be the domain on which the R3000 resides.

The entries described in this section represent entries to be made on a typical network.

#### System section

The first settings for authentication must be made in the System section of the Administrator console in the following windows: Operation Mode, LAN Settings, Enable/Disable Authentication, Authentication Settings, Authentication SSL Certificate (if Web-based authentication will be used), and Block Page Authentication.

1. Select "Mode" from the navigation panel, and then select "Operation Mode" from the pop-up menu.

The entries made in the Operation Mode window will vary depending on whether you will be using the invisible mode, or the router or firewall mode.

In the Listening Device frame, set the Listening Device to "LAN1".

In the Block Page Device frame:

- · If using the invisible mode, select "LAN2".
- If using the router or firewall mode, select "LAN1".
- 2. Select "Network" from the navigation panel, and then select "LAN Settings" from the pop-up menu.

The entries made in this window will vary depending on whether you are using the invisible mode, or the router or firewall mode. The LAN1 and LAN2 IP addresses usually should be in a different subnet.

- If using the invisible mode: For the LAN1 IP address, select 255.255.255 for the subnet mask.
- If using the router or firewall mode: Specify the appropriate IP address and subnet mask in the applicable fields.
- 3. Select "Authentication" from the navigation panel, and then select Enable/Disable Authentication from the pop-up menu.

Enable authentication, and then select one of three tiers in the Web-based Authentication frame:

- Tier 1: Choose this option if you will only be using net use based authentication for NT or Active Directory servers.
- Tier 2: Choose this option if you wish to use timed Web-based authentication for NT and LDAP domains. This option gives the user a timed session for his/her Internet access. After the timed profile expires, the user will have to log in again if he/she wants to continue to have Internet access.
- Tier 3: Choose this option if you wish to use persistent Web-based authentication for NT and LDAP domains. This option gives the user a persistent network connection via a pop-up window that keeps the user's session open until the window is closed, so the user does not have to log in repeatedly.

If you wish to use the tier you specified as a fallback authentication solution, you have the option to enable any of the following authentication solutions as appropriate to your environment: 8e6 Authenticator, Active Directory Agent, Novell eDirectory Agent. 4. Select "Authentication" from the navigation panel, and then select "Authentication Settings" from the pop-up menu.

In the Settings frame, enter general configuration settings for the R3000 server such as IP address entries.

From the NIC Device to Use for Authentication pull-down menu:

- If using the invisible mode: Select "LAN2" as the device to send traffic on the network.
- · If using the router or firewall mode: Select "LAN1".

Information should only be entered in the NT Authentication Server Details frame if the R3000 will use the NT Authentication method to authenticate users.

5. Select "Authentication" from the navigation panel, and then select Authentication SSL Certificate from the popup menu. This option should be used if Web-based authentication will be deployed on the R3000 server.

Using this option, you create either a self-signed certificate or a Certificate Request (CSR) for use by the Secure Sockets Layer (SSL). The certificate should be placed on client machines so that these machines will recognize the R3000 as a valid server with which they can communicate.

6. Select "Control" from the navigation panel, and then select "Block Page Authentication" from the pop-up menu.

In the Block Page Authentication window, select the Reauthentication Options to be used. The items you select will be listed as options for re-authentication on the Options page, accessible from the standard block page. If the "Re-authentication" (NET USE) option is selected, enter the login script path to be used by the R3000 for reauthentication purposes. 7. Select "Administrator" from the navigation panel to access the Administrator window. Add group administrator (Sub Admin) accounts in this window. Sub Admin group administrators will later be assigned to manage entities in the NT and/or LDAP branch(es) of the Group tree.

#### **Group section**

In the Group section of the Administrator console, choose NT or LDAP, and then do the following:

1. Add a domain from the network to the list of domains that will have users authenticated by the R3000.



**NOTE**: If the network has more than one domain, the first one you add should be the domain on which the R3000 resides.

- 2. Do either of the following as necessary:
  - Assign a group administrator to oversee the newlyadded domain and to set up filtering profiles for all groups and members within that domain
  - Assign Sub Admin group administrators to specific groups and let them create filtering profiles for their group and its members
- 3. Set the group priority by designating which group profile will be assigned to a user when he/she logs in. If a user is a member of multiple groups, the group that is positioned highest in the list is applied.

# CHAPTER 2: NETWORK SETUP

# **Environment Requirements**

## Workstation Requirements

## Administrator

Minimum system requirements for the administrator include the following:

- Windows 2000 or later operating system (not compatible with Windows server 2003) running Internet Explorer (IE) 6.0 or later (Windows Vista running IE7)
- Macintosh OS X Version 10.5 running Safari 2.0, Firefox 2.0
- · JavaScript enabled
- Java Virtual Machine
- Java Plug-in (use the version specified for the R3000 software version)
- Java Runtime Environment, if using Tier 3 authentication

**NOTE**: R3000 administrators must be set up with software installation privileges in order to install Java used for accessing the interface.

#### End User

- Windows 98 or later operating system (not compatible with WIndows server 2003) running Internet Explorer (IE) 5.5 or later
- Macintosh OS X running Safari 1.0 or later, Firefox 1.0 or later
- JavaScript enabled
- Java Runtime Environment, if using Tier 3 authentication
- Pop-up blocking software, if installed, must be disabled

## **Network Requirements**

- High speed connection from the R3000 server to the client workstations
- HTTPS connection to 8e6's software update server
- Internet connectivity for downloading Java Virtual Machine—and Java Runtime Environment, if necessary—if not already installed

## Set up the Network for Authentication

The first settings for authentication must be made in the System section of the console in the following windows: Operation Mode, LAN Settings, Enable/Disable Authentication, Authentication Settings, Authentication SSL Certificate (if Web-based authentication will be used), View Log File (for troubleshooting authentication setup), and Block Page Authentication. Entries for customizing the block page and/ or authentication request form are made in the Common Customization, Authentication Form Customization, and Block Page Customization windows.

## Specify the operation mode

Click Mode and select Operation Mode from the pop-up menu to display the Operation Mode window:

HOME S	YSTEM GF	OUP LIE	BRARY	REPORTING	HELP	QUIT	
HOME S System Control Network Administrator Secure Logon Diagnostics Alert Patch Synchronization Note Backup/Restore Reset Radus Authentication Setting SMMP Hardware Failure Detection X Strikes Blocking Usarno poton Setting Customization CMC Management Guida Setting	Operation System>Mode Mode © Invisible Listening D Device LAN Block Page Protocol Metho	Mode? >Operation Mo C Router C evice Delivery Me ds: Page via ARP T de To: teway Address	ode Firewall (	C Mobile C ICAP Block Pag Device to se end Block to Specified	<b>je Device</b> nd block page	e LAN2	
<b>I D</b>						l	Apply

Fig. 2-1 Operation Mode window

The entries made in this window will vary depending on whether you will be using the invisible mode, or the router or firewall mode.

- 1. In the Mode frame, select the mode to be used: "Invisible", "Router", or "Firewall".
- 2. In the Listening Device frame, set the **Device** to "LAN1".

- 3. In the Block Page Device frame:
  - If using the invisible mode, select "LAN2".
  - If using the router or firewall mode, select "LAN1".

If using the invisible mode, the Block Page Delivery Method frame displays. Choose from either of the two **Protocol Methods**:

- "Send Block Page via ARP Table" this option uses the Address Resolution Protocol method to find the best possible destination MAC address of a specified host, usually the R3000 gateway.
- "Send Block to Specified Host MAC Address" using this preferred method, the block page will always be sent to the MAC address of a specified host, usually the R3000 gateway.

Choose from either of the two **Block Page Route To** selections:

- "Default Gateway" this option indicates that the default gateway on your network will be used for sending block pages.
- "Alternate IP Address" this option should be used if block pages are not being served.

Enter the **IP** address of the router or device that will serve block pages.

4. Click Apply.

## Specify the subnet mask, IP address(es)

Click Network and select LAN Settings from the pop-up menu to display the LAN Settings window:

HOME S	YSTEM GROUF	LIBRARY	REPORTING	HELP	QUIT	1
HOME S System Control System Control Administrator Secure Logon Diagnostics Alert Patch Synchronization Mode Backup/Restore Reset Redius Authentication Setting SMMP Hardware Failure Detection X Strikes Biocking Warn Option Setting Customization Guota Setting Customization	YSTEM GROUF LAN Settings System>Network>L Host Name logo.com IP / Mask Setting DNS Gateway	AN Settings	/ 25 160.74 / 25 200.10.160.1	HELP		
×						Apply

Fig. 2-2 LAN Settings window

The entries made in this window will vary depending on whether you are using the invisible mode, or the router or firewall mode.



**NOTE**: If the gateway IP address on the network changes, be sure to update the Gateway IP address in this window.

#### Invisible mode

For the **LAN1 IP** address, select 255.255.255.255 for the subnet mask, and click **Apply**.

#### Router or firewall mode

- 1. Enter the following information:
  - In the LAN1 IP field of the IP/Mask Setting frame, enter the IP address and specify the corresponding subnet of the "LAN1" network interface card to be used on the network.
  - In the LAN2 IP field, enter the IP address and specify the corresponding subnet of the "LAN2" network interface card to be used on the network.

**TIP**: The LAN1 and LAN2 IP addresses usually should be placed in different subnets.

- In the **Primary IP** field of the DNS frame, enter the IP address of the first DNS server to be used for resolving the IP address of the authentication server with the machine name of that server.
- In the **Secondary IP** field of the DNS frame, enter the IP address of the second DNS server to be used for resolving the IP address of the authentication server with the machine name of that server.
- In the Gateway IP field of the Gateway frame, enter the IP address of the default router to be used for the entire network segment.
- 2. Click Apply to apply your settings.



**NOTE**: Whenever modifications are made in this window, the server must be restarted in order for the changes to take effect.

## Enable authentication, specify criteria

- Click Authentication and select Enable/Disable Authentication from the pop-up menu to display the Enable/ Disable Authentication window:
- 2. Click **Enable** to enable authentication.
- 3. Select one of three tiers in the Web-based Authentication frame:

HOME S	YSTEM GROUP LIBRARY REPORTING HELP QUIT					
System Control Network Administrator Secure Logon Diagnostics	Enable/Disable Authentication  System>Authentication>Enable/Disable Authentication Authentication Authentication Authentication mode: Enabled Enable Disable					
Alert     Patch     Synchronization     Synchronization     Mode     Authentication     NIC Mode     Backup/Restore     Reset     Resits Authentication Setting     SNMP     Hardware Failure Detection     X Strikes Elocking	Web-based Authentication           C         Tier 1: Web-based Authentication disabled (Net Use enabled)           ©         Tier 2: Use time-based profiles, with time-out (in minutes):         30           C         Tier 3: Use persistent logins via a Java Applet         30           Tier 4: Use time-based profiles, with time-out (in minutes):         30           C         Tier 3: Use persistent logins via a Java Applet           Tier 4: Use Tier an organization with more than 5000 users, slowness may be experienced during th authentication process. In this scenario, Bé commends using an R3000 Filter with an SSL accelerator and thatalled. Please contact Bef for more information.           Bef Authenticator         Bef Authenticator					
Warn Option Setting Customization Cctomanagement Quota Setting	© On ○ Off     Download Be6 Authenticator       It is highly recommended that the Be6 Authenticator option be turned on at all times.       AD Agent       © On ○ Off       Download Be6 AD Agent Installer       Settings   Novell eDirectory Agent       ○ On ◎ Off					
<b>I</b>	On C Off     Inactive session lifetime (in minutes): 20160     Apply					

Fig. 2-3 Enable/Disable Authentication window

**NOTES**: See information on the following pages for details about each of the tiers, and for steps that must be executed to enable your tier selection.

See Appendix A: Authentication Operations for more information about each tier and for configuring various authentication options.

- 4. Enable any of the following authentication options, as pertinent to your environment:
  - In the 8e6 Authenticator frame, be sure the 8e6 Authenticator is "On"—unless the Novell eDirectory Agent option will be used instead. When enabling the 8e6 Authenticator option, and then downloading and installing the 8e6 Authenticator (authenticat.exe) on a network share accessible by the domain controller or a Novell eDirectory server, the 8e6 Authenticator automatically authenticates the end user when he/she logs into his/her workstation.
  - If you have a Novell eDirectory server and the 8e6 Authenticator will not be used, turning "On" Novell eDirectory Agent will enable end user logon and logoff events to be logged. To use this option, the LDAP domain must be set up and activated in the Group tree.

WARNING: When enabling Novell eDirectory Agent, the agent will immediately begin scanning Novell eDirectory-based domain labels.

- If using a Windows 2000 or Windows 2003 server for authentication, the Active Directory Agent option can be used for capturing end user logon and logoff events and sending a session table to the R3000 so end users receive the correct filtering profile. To use this feature, turn "On" the AD Agent, and then specify settings for administrator computers authorized to configure the AD Agent via the Active Directory Agent console. Download and install the AD Agent (DCAgent.msi) on the administrator workstation.
- 5. If using Tier 1, in the Sending Keep Alive frame, click "On" to specify that keep alives should be sent on a connection to verify whether it is still active. Click "Off" to specify that the end user's session will be kept alive based on the number of minutes entered in the text box.
- 6. Click Apply.

#### Net use based authentication

**Tier 1: Web-based Authentication disabled (Net Use enabled)** – Choose this option if you will be using net use based authentication for NT or Active Directory.

- 1. Click "Tier 1".
- 2. In the Sending Keep Alive frame, click the radio button corresponding to the option to be used:
  - "On" This option specifies that keep alives should be sent on a connection to verify whether it is still active.
  - "Off" This option specifies that the end user's session will be kept alive based on the number of minutes entered in the text box.

In the **Inactive session lifetime (in minutes)** field, enter the number of minutes the end user's session will be kept alive.

3. Click **Apply** to open the alert box that confirms your selection.

#### Web-based authentication

Choose either Tier 2 or Tier 3 if Web-based authentication will be used.

**NOTE**: If selecting either Tier 2 or Tier 3, please be informed that in an organization with more than 5000 users, slowness may be experienced during the authentication process. In this scenario, 8e6 recommends using an R3000 Filter with an SSL accelerator card installed. Please contact 8e6 for more information.

**Tier 2: Use time-based profiles, with time-out (in minutes)** – Choose this option if using NT and/or LDAP authentication, and you want the user to have a time limit on his/her Internet connection. This option uses an authentication servlet that lets the user log into either domain with no persistent connection between the client PC and the R3000.

- 1. Click "Tier 2".
- 2. Enter a whole number for the duration of time the user will retain his/her Internet connection.
- 3. Click **Apply** to open the alert box that confirms your selection.

**Tier 3: Use persistent logins via a Java Applet** – Choose this option if using NT and/or LDAP authentication, and you want the user to maintain a persistent network connection.

This option—the preferred method for NT authentication opens a profile window that uses a Java applet:



Fig. 2-4 Java applet

The profile window must be kept open during the user's session in order for the user to have continued access to the Internet.

**NOTE**: Tier 3 Authentication requires a current version of Java Runtime Environment (JRE) on end-users' PCs. In some cases, a JRE will need to be downloaded and installed on workstations and the R3000 will allow the JRE download at the time of login. However some operating systems may require this action to be performed manually.

- 1. Click "Tier 3".
- 2. Click **Apply** to open the dialog box that informs you about the requirement of a current Java Runtime Environment (JRE) to be installed on each end user's workstation:

Message X						
Tier 3 Authentication requires a current version of Java Runtime Environment (JRE) on end-users' PCs. In some cases, a JRE will need to be downloaded and installed on workstations and the R3000 will allow the JRE download at the time of login. However some operating systems may require this action to be performed manually.						
To ensure that the end-users are using the most current version of JRE, choose the method for distributing the current version to their workstations:						
C 8e6 automatically distributes JRE during user login						
Administrator manually distributes JRE to user workstations						
Continue Cancel						
Java Applet Window						

Fig. 2-5 Tier 3 dialog box

- To ensure that end-users are using the most current version of JRE, choose the method for distributing the current version to their workstations: "8e6 automatically distributes JRE during user login" or the default selection, "Administrator manually distributes JRE to user workstations".
- 4. Click **Continue** to open the alert box that confirms your selection.

## Enter network settings for authentication

 Click Authentication and select Authentication Settings from the pop-up menu to display the Authentication Settings window:

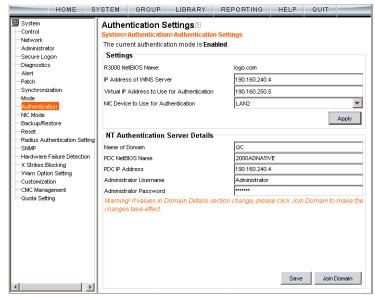


Fig. 2-6 Authentication Settings window

In the Settings frame, at the **R3000 NetBIOS Name** field the NetBIOS name of the R3000 displays. This information comes from the entry made in the Host Name field of the LAN Settings window.

2. In the **IP Address of WINS Server** field, if using a WINS server for name resolution, enter the IP address of each Windows DNS server to be filtered by this R3000, with a space between each IP address.

In the Virtual IP Address to Use for Authentication field, 1.2.3.5 displays by default. If using Tier 1 or Tier 3, enter the IP address that from now on will be used for communicating authentication information between the R3000 and the PDC. This must be an IP address that is not being used, on the same segment of the network as the R3000.

WARNING: If the IP address entered here is not in the same subnet as this R3000, the net use connection will fail.

- 4. From the NIC Device to Use for Authentication pulldown menu:
  - if using the invisible mode, select "LAN2" for sending traffic on the network-in particular, for transferring authentication data.
  - if using the router or firewall mode, select "LAN1".
- 5. Click **Apply** to apply your settings.

**8 NOTE**: If using the NT authentication method, you will later return to this window to join the domain. See the section on Join the NT domain in Chapter 3: NT Authentication Setup for information about these procedures.

## Create an SSL certificate

Authentication SSL Certificate should be used if Web-based authentication will be deployed on the R3000 server. Using this feature, a Secured Sockets Layer (SSL) self-signed certificate is created and placed on client machines so that the R3000 will be recognized as a valid server with which they can communicate.

Click Authentication and select Authentication SSL Certificate from the pop-up menu to display the Authentication SSL Certificate window:

HOME S	YSTEM GROUP	LIBRARY	REPORTING	HELP	QUIT	]
System Control Administrator Secure Logon Diagnostics Aet Patch Synchronization Mode	Authentication System>Authenticat The R3000 uses a SSL Authentication. After or the R3000 should not b possibly added to each Self Signed Certificate Create Self Signed Cer	ion>Authenticatic certificate to secure reating a self-signed te changed. If the Di client workstation's Third Party Certifit tificate to generate	In SSL Certificate its communications with certificate or a Certific NS name changes, a ne trusted certificate list. cate Download/View/U	ate Request ew certificate Delete Certific icate for the P	(CSR), the D must be crea	
Authentication     Note     Backup/Restore     Reset     Reset     Radius Authentication Setting     SNMP     Hardware Failure Detection     X Strikes Blocking     Warn Option Setting     Customization     CMC Management     Quota Setting		_ Create	Self Signed Certificate	:		
4						

Fig. 2-7 Authentication SSL Certificate window

This window is comprised of three tabs: Self Signed Certificate, Third Party Certificate, and Download/View/Delete Certificate. These tabs are used to create, view, and/or delete self-signed or third party SSL certificates.

#### Create, Download a Self-Signed Certificate

- 1. On the Self Signed Certificate tab, click **Create Self Signed Certificate** to generate the SSL certificate.
- 2. Click the Download/View/Delete Certificate tab:

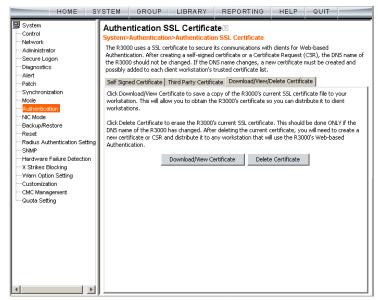


Fig. 2-8 Download/View/Delete Certificate tab

 Click Download/View Certificate to open the File Download dialog box where you indicate whether you wish to Open and view the file, or open the Save As window so that you can Save the SSL certificate to a specified folder on your workstation.

**NOTE**: While the SSL certificate can be downloaded on a Macintosh computer, the best method to import the certificate is via the Authentication Request Form, when prompted by the Security Alert warning message to add the certificate to the trusted certificate store. Once the certificate is saved to your workstation, it can be distributed to client workstations for users who need to be authenticated.

**TIP**: Click **Delete Certificate** to remove the certificate from the server.

#### Create, Upload a Third Party Certificate

#### **Create a Third Party Certificate**

1. Click the Third Party Certificate tab:

HOME S	YSTEM	GROUP	LIBRARY	REPORTING	HELP	QUIT	
System - Control - Network - Administrator - Secure Logon - Diagnostics - Alert - Patch - Patch - Synchronization	System> The R300 Authentid the R300 possibly a Self Sign Create a	Authenticati 10 uses a SSL o ation. After cr 0 should not b added to each ed Certificate Third Party Ce	ertificate to secure eating a self-signed e changed. If the Di client workstation's l Third Party Certific ertificate Request (C	n SSL Certificate its communications wit certificate or a Certifi V5 name changes, a n trusted certificate list. ate Download/View/ SR):	cate Request ew certificate Delete Certific	(CSR), the DI must be crea	
Mode     Mithentication     NiC Mode     Backup/Restore     Reset     Radius Authentication Setting     ShMP     Hardware Failure Detection     X Strikes Blocking	Click Dov Click Uplo Click Dele	nload/View CS ad Certificate	R to display the exi		load.	DOO. Delete C	īR
- Warn Option Setting - Customization - CMC Management - Guota Setting							
×>							

Fig. 2-9 Third Party Certificate tab

**NOTE**: If a third party certificate has not yet been created, the Create CSR button is the only button activated on this tab.

2. Click **Create CSR** to open the Create CSR pop-up window:

Create CSR	×
Common Name (Host Name)	logo.com
Email Address	pjohnson@logo.com
Organization	LOGO
Organization Unit	Inc.
Locality	Orange
State or Province	California
Country (2 character country code	) <mark>US</mark>
Create	Cancel
Java Applet Window	

Fig. 2-10 Create CSR pop-up window

The **Common Name (Host Name)** field should automatically be populated with the host name. This field can be edited, if necessary.

- 3. Enter your Email Address.
- 4. Enter the name of your **Organization**, such as **8e6** *Technologies*.
- 5. Enter an **Organizational Unit** code set up on your server, such as *Corp*.
- 6. Enter **Locality** information such as the name of your city or principality.
- 7. Enter the **State or Province** name in its entirety, such as *California*.
- 8. Enter the two-character Country code, such as US.
- 9. Click Create to generate the Certificate Signing Request.

NOTE: Once the third party certificate has been created, the Create CSR button displays greyed-out and the Download/View CSR, Upload Certificate, Delete CSR buttons are now activated.

#### **Upload a Third Party Certificate**

1. Click **Upload Certificate** to open the Upload Signed SSL Certificate for R3000 pop-up window:

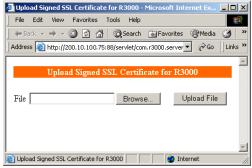


Fig. 2-11 Upload Signed SSL Certificate box

The Message dialog box also opens with the message: "Click OK when upload completes."



- TIP: Click Cancel in the dialog box to cancel the procedure.
- 2. In the Upload Signed SSL Certficate for R3000 pop-up window, click **Browse** to open the Choose file window.
- 3. Select the file to be uploaded.
- 4. Click Upload File to upload this file to the R3000.
- 5. Click **OK** in the Message dialog box to confirm the upload and to close the dialog box.

#### **Download a Third Party Certificate**

 In the Authentication SSL Certificate window, click Download/View CSR to open a pop-up window containing the contents of the certificate request:

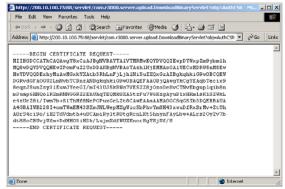


Fig. 2-12 Download CSR pop-up window

2. Click the "X" in the upper right corner of the window to close it.



TIP: Click Delete CSR to remove the certificate from the server.

## View log results

Use the View Log File window if you need to troubleshoot any problems with the authentication setup process.

1. Click Diagnostics and select View Log File from the popup menu to display the View Log File window:

Fig. 2-13 View Log File window

**NOTE**: In this user guide, only authentication-related options will be addressed. For information about all other options, see the View Log File window in the R3000 User Guide.

- 2. In the Log File Details frame, select the type of Log File to view:
  - "User Name Log (usage.log)" used for viewing the time and date a user logged on and off the network, along with the user's profile information.
  - "Wbwatch Log (wbwatch.log)" used for viewing messages on attempts to join the domain via the Authentication Settings window.
  - "Authentication Log (AuthenticationServer.log)" used for viewing information about the authentication process for users, including SEVERE and WARNING error messages.
  - "Admin GUI Server Log (AdminGUIServer.log)" used for viewing information on entries made by the administrator in the console.
  - "eDirectory Agent Debug Log (edirAgent.log)" used for viewing the debug log, if using eDirectory LDAP authentication.
  - "eDirectory Agent Event Log (edirEvent.log)" used for viewing the event log, if using eDirectory LDAP authentication.
  - "Authentication Module Log (authmodule.log)" used for viewing information about SEVERE error messages pertaining to LDAP authentication connection attempts.
- 3. Choose the **Last Number of Lines** to view (100-500) from that file.

4. Click **View** to display results in the Result pop-up window:

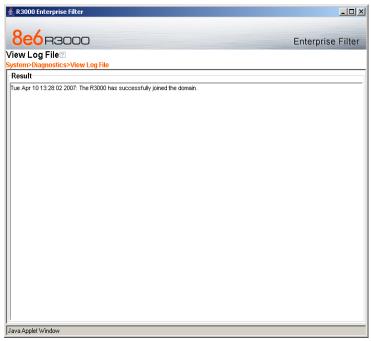


Fig. 2-14 View Log File Result pop-up window

5. Click the "X" in the upper right corner of the pop-up window to close it.

## Specify block page settings

Click Control and select Block Page Authentication from the pop-up menu to display the Block Page Authentication window:

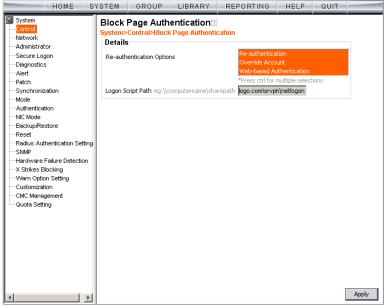


Fig. 2-15 Block Page Authentication window

#### **Block Page Authentication**

- 1. In the **Re-authentication Options** field of the Details frame, all block page options are selected by default, except for Web-based Authentication. Choose from the following options by clicking your selection:
  - Web-based Authentication select this option if using Web authentication with time-based profiles or persistent login connections for NT or LDAP authentication methods.
  - **Re-authentication** select this option for the reauthentication option. The user can restore his/her profile and NET USE connection by clicking an icon in a window to run a NET USE script.
  - Override Account select this option if any user has an Override Account, allowing him/her to access URLs set up to be blocked at the global or IP group level.

**TIP**: Multiple options can be selected by clicking each option while pressing the Ctrl key on your keyboard.



**NOTE**: See the R3000 User Guide for information about the Override Account feature.

- 2. If the "Re-authentication" option was selected, in the Logon Script Path field, \\PDCSHARE\scripts displays by default. In this field, enter the path of the logon script that the R3000 will use when re-authenticating users on the network, in the event that a user's machine loses its connection with the server, or if the server is rebooted. This format requires the entry of two backslashes, the authentication server's computer name (or computer IP address) in capital letters, a backslash, and name of the share path.
- 3. Click Apply to apply your settings.

#### **Block page**

When a user attempts to access Internet content set up to be blocked, the block page displays on the user's screen:

🖉 8e6 R3000 - Microsoft Internet Explorer 📃	
Eile Edit View Favorites Iools Help	
(↓= Back + → + 🙆 🖄 🖓 Search 👔 Favorites 🎲 History 📴 + 🎒 🐨 + 🗐	
Address 🛃 w.coors.com/&IP=200.10.100.75:81&CAT=ALCO&JSER=LOGO\Domain%20Admins\GLANG 🔻 🔗 Go	Links »
ACCESS DENIED! HELP	
Internet access to the requested website has been denied based on your user profile and organization's Internet Usage Policy.	
User/Machine: LOGO/Domain Admins\GLANG	
IP: 200.10.101.140	
Category: Alcohol	
Blocked URL: http://www.coors.com/	
For further options, click here.	
To submit this blocked site for review, <u>click here</u> . For assistance, contact your Administrator.	
8e6 R3000 Internet filtering provided by 8e6 Technologies. Copyright 2003. All rights reserved.	
	-
Internet	

Fig. 2-16 Block page

**NOTES**: See Block Page Customization for information on adding free form text and a hyperlink at the top of the block page. Appendix C: Create a Custom Block Page from the R3000 User Guide for information on creating a customized block page using your own design.

#### **User/Machine frame**

By default, the following data displays in the User/Machine frame:

- **User/Machine** field The username displays for the NT/ LDAP user. This field is blank for the IP group user.
- IP field The user's IP address displays.
- **Category** field The name of the library category that blocked the user's access to the URL displays. If the content the user attempted to access is blocked by an Exception URL, "Exception" displays instead of the library category name.
- **Blocked URL** field The URL the user attempted to access displays.

#### Standard Links

By default, the following standard links are included in the block page:

- **HELP** Clicking this link takes the user to 8e6's Technical Support page that explains why access to the site or service may have been denied.
- **8e6 Technologies** Clicking this link takes the user to 8e6's Web site.

#### **Optional Links**

By default, these links are included in the block page under the following conditions:

- For further options, <u>click here</u>. This phrase and link is included if any option was selected at the Re-authentication Options field in the Block Page Authentication window. Clicking this link takes the user to the Options window, described in the Options page sub-section that follows.
- To submit this blocked site for review, <u>click here</u>. -This phrase and link is included if an email address was entered in the Submission Email Address field in the Common Customization window. Clicking this link launches the user's default email client. In the composition window, the email address from the Submission Email Address field populates the "To" field. The user's message is submitted to the global administrator.

#### **Options page**

The Options page displays when the user clicks the following link in the block page: **For further options**, <u>click</u> <u>here</u>.

🏄 8e6 R3000 - M	licrosoft Internet Explorer	_ 🗆 🗵
j <u>F</u> ile <u>E</u> dit ⊻ie	w F <u>a</u> vorites <u>T</u> ools <u>H</u> elp	
] 🖙 Back 🔹 🔿	- 🗿 🗗 🖓 Search 👔 Favorites 🧭 History 🛛 🖏 - 🗐 🐖 - 🗐	
Address 🛃 http	://200.10.100.75:81/cgi/block.cgi 💽 🔗 Go	Links »
[		<b>A</b>
	OPTIONS <u>HE</u>	LP
User/M	achine: LOGO/Domain Admins/GLANG IP: 200.10.101.140	
Ca	tegory: Alcohol	
	ed URL: http://www.coors.com/	
Option 1:	Click here for secure Web-based authentication.	
Option 2:	If the above profile is incorrect or there has been an error, you can:	
	Re-start your system and re-login or	
	<u>Try re-authenticating your user profile</u>	
Option 3:	If you have an override account, enter your username and password.	
	Username:	
	Password: Override	
	Warning! The override account option will not function if anti-popup software is installed on	
	your system.	
		-
🖉 Done	🔮 Internet	

Fig. 2-17 Options page

The following items previously described for the Block page display in the upper half of the Options page:

- BACK and HELP links
- User/Machine frame contents

The frame beneath the User/Machine frame includes information for options (1, 2, and/or 3) based on settings made in the Block Page Authentication window.

#### **Option 1**

Option 1 is included in the Options page if "Web-based Authentication" was selected at the Re-authentication Options field in the Block Page Authentication window. The following phrase/link displays:

Click here for secure Web-based authentication.

When the user clicks the link, the Authentication Request Form opens:

Internet Access A	Authentication - Microsoft Internet	t Explorer		
	Favorites Tools Help			
	🗿 🔁 🐴 🔍 Search 🕞 Favorit			
Address 🕘 https://r	3000a.gc.local:8081/AuthenticationServ	ver/AuthenticationForm.jsp?URL=192.168.20.10/index.htm8dP=192.168.20.8086CAT=	SPORTSBUSER-DEFAULT	- 6
		WEB ACCESS AUTHENTICATION	HELP	
		Please log in to access the Internet.		
	Authentication Login	L		
	Username:	tjones		
	Password:	ANUAAA		
	Domain	Novell (LDAP)		
	Alias	QC_Server		
		Log In		
	8e6 R3000 Int	ternet filtering provided by Be6 Technologies, Copyright 2005. All rights reserved.	_	
Done			🔒 🔮 Internet	
10000			incernec	

Fig. 2-18 Authentication Request Form



**NOTE:** See Authentication Form Customization for information on adding free form text and a hyperlink at the top of the Authentication Request Form.

#### **Option 2**

The following phrase/link displays, based on options selected at the Re-authentication Options field in the Block Page Authentication window:

- **Re-start your system and re-login** This phrase displays for Option 1, whether or not either of the Reauthentication Options (Re-authentication, or Webbased Authentication) was selected in the Block Page Authentication window. If the user believes he/she was incorrectly blocked from a specified site or service, he/ she should re-start his/her machine and log back in.
- <u>Try re-authenticating your user profile</u> This link displays if "Re-authentication" was selected at the Reauthentication Options field, and an entry was made in the Logon Script Path field. When the user clicks this link, a window opens:

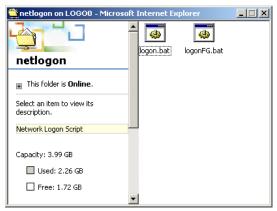


Fig. 2-19 Re-authentication option

The user should click the **logon.bat** icon to run a script that will re-authenticate his/her profile on the network.

#### **Option 3**

Option 3 is included in the Options page, if "Override Account" was selected at the Re-authentication Options field in the Block Page Authentication window.

This option is used by any user who has an override account set up for him/her by the global group administrator or the group administrator. An override account allows the user to access Internet content blocked at the global or IP sub-group level.

The user should enter his/her **Username** and **Password**, and then click **Override** to open the Profile Control window. This window must be left open throughout the user's session in order for the user to be able to access blocked Internet content.



**NOTES**: See Appendix F: Override Pop-up Blockers for information on how a user with an override account can authenticate if a pop-up blocker is installed on his/her workstation.

See the R3000 User Guide for information about the Override Account feature.

#### **Common Customization**

Common Customization lets you specify elements to be included in block pages and/or the authentication request form end users will see.

Click Customization and then select Common Customization from the pop-up menu to display the Common Customization window:

HOME S	YSTEM GROUP	LIBRARY	REPORTING	HELP	QUIT	
System Control Network Administrator Secure Logon Diagnostics Alert Patch Synchronization Mode Authentication Not Mode Backup/Restore Reset Readus Authentication Setting ShMP Hardware Failure Detection X Strikes Blocking CMC Management Guota Setting	Common Custo System>Customizat Details Username Display IP Address Display	ion>Common Cust © On © On	lomization	C off C off	1	
	Category Display Blocked URL Display Copyright Display Title Display	© On © On © On © On ⊙ On		C off C off C off C off C off		
	Help Display Help Link Text Help Link URL Submission Review Display Submission Fraal Address	HELP http:// splay ③ On	www.8e6.com/techs		esponse.htm	1
			, , , , , , , , , , , , , , , , ,	Restore [	Default	Apply

Fig. 2-20 Common Customization window

By default, in the Details frame all elements are selected to display in the HTML pages, the Help link points to the FAQs page on 8e6's public site that explains why access was denied, and a sample email address is included for administrator contact information. These details can be modified, as necessary.

#### Enable, disable features

- 1. Click "On" or "Off" to enable or disable the following elements in the HTML pages, and make entries in fields to display customized text, if necessary:
  - Username Display if enabled, displays "User/ Machine" followed by the end user's username in block pages
  - IP Address Display if enabled, displays "IP" followed by the end user's IP address in block pages
  - Category Display if enabled, displays "Category" followed by the long name of the blocked category in block pages
  - Blocked URL Display if enabled, displays "Blocked URL" followed by the blocked URL in block pages
  - Copyright Display if enabled, displays 8e6 R3000 copyright information at the footer of block pages and the authentication request form
  - Title Display if enabled, displays the title of the page in the title bar of the block pages and the authentication request form
  - Help Display if enabled, displays the specified help link text in block pages and the authentication request form. The associated URL (specified in the Help Link URL field described below) is accessible to the end user by clicking the help link.

گ

**NOTE**: If enabling the Help Display feature, both the Help Link Text and Help Link URL fields must be populated.

• Help Link Text - By default, *HELP* displays as the help link text. Enter the text to display for the help link.

- Help Link URL By default, http://www.8e6.com/techsupport/deniedresponse.html displays as the help link URL. Enter the URL to be used when the end user clicks the help link text (specified in the Help Link Text field).
- Submission Review Display if enabled, displays in block pages the email address of the administrator to receive requests for a review on sites the end users feel are incorrectly blocked. The associated email address (specified in the Submission Email Address field described below) is accessible to the end user by clicking the <u>click here</u> link.



**NOTE**: If enabling the Submission Review Display feature, an email address entry of the designated administrator in your organization must be made in the Submission Email Address field.

- Submission Email Address By default, admin @company.com displays in block pages as the email address of the administrator to receive feedback on content the end user feels has been incorrectly blocked. Enter the global administrator's email address.
- 2. Click Apply to save your entries.

**TIP**: Click **Restore Default** and then **Apply** to revert to the default settings.

#### **Authentication Form Customization**

To customize the Authentication Request Form, click Customization and select Authentication Form from the pop-up menu:

HOME S	YSTEM	GROUP	LIBRARY	REPORTING	HELP	QUIT	
System Control Network Administrator		Customization	orm Custon	nization 2 n Form Customizatio	on		
Secure Logon Diagnostics	Header			ESS AUTHENTICATION	*		
Alert     Patch     Synchronization     Mode     Authentication	Descriptio	n	Ticuse log		A		
NIC Mode Backup/Restore	Link Text						
			I				
I F				Restore Defa	ault Pr	eview	Apply

Fig. 2-21 Authentication Form Customization window

NOTE: This window is activated only if Authentication is enabled via System > Authentication > Enable/Disable Authentication, and Web-based Authentication is specified.

**TIP**: An entry in any of the fields in this window is optional, but if an entry is made in the Link Text field, a corresponding entry must also be made in the Link URL field.

- 1. Make an entry in any of the following fields:
  - In the **Header** field, enter a static header to be displayed at the top of the Authentication Request Form.
  - In the **Description** field, enter a static text message to be displayed beneath the Authentication Request Form header.
  - In the Link Text field, enter text for the link's URL to be displayed beneath the Description in the Authentication Request Form, and in the Link URL field, enter the corresponding hyperlink in plain text using the http:// or https:// syntax.

Any entries made in these fields will display centered in the Authentication Request Form, using the Arial font type.

2. Click Apply.

**TIP**: Click **Restore Default** and then **Apply** to revert to the default text in this window.

#### **Preview sample Authentication Request Form**

1. Click **Preview** to launch a separate browser window containing a sample Authentication Request Form, based on entries saved in this window and in the Common Customization window:

🚰 Web Access Authentication - Microsoft Internet Explorer	_ 🗆 🗡
File Edit View Favorites Tools Help	100 C
j ← Back - → - 🙆 🕼 🖓 🔞 Search 📷 Favorites 🛞 Media 🎯 🔂 - 🎒 📰 🗐	
Address 🗃 https://200.10.100.75:8081/AuthenticationServer/PreviewAuthenticationForm.jsp	▼ 🖓 Go 🛛 Links »
	×
WEB ACCESS AUTHENTICATION HELP	
Please log in to access the Internet	
Authentication Login	
Username :	
Password :	
Domain LOGSYS (NT)	
Alias Disabled	
Log In	
8e6 R3000 Internet filtering provided by 8e6 Technologies. Copyright 2005. All rights reserved.	
	*
🙆 Done	Internet //

Fig. 2-22 Sample Customized Authentication Request Form

By default, the following data displays in the frame:

- Username field The username displays.
- **Password** field The user's IP address displays.
- **Domain** field All LDAP domain names set up on the R3000 display in the pull-down menu.
- Alias field (optional) All alias names associated with the LDAP domain specified in the field above display in the pull-down menu, if the account names were entered for that LDAP domain.

By default, the following standard links are included in the Authentication Request Form:

- **HELP** Clicking this link takes the user to 8e6's Technical Support page that explains why access to the site or service may have been denied.
- **8e6 Technologies** Clicking this link takes the user to 8e6's Web site.
- 2. Click the "X" in the upper right corner of the window to close the sample Authentication Request Form.

TIP: If necessary, make edits in the Authentication Form Customization window or the Common Customization window, and then click Preview in this window again to view a sample Authentication Request Form.

#### **Block Page Customization**

To customize the block page, click Customization and select Block Page from the pop-up menu:

HOME S	YSTEM	GROUP	LIBRARY	REPORTING	HELP	QUIT	
HOME S System Control Administrator Administrator Secure Logon Diagnostics Alert Patch Synchronization Mode Backup/Restore Rest Redus Authentication Setting SNMP Hardware Failure Detection X Strikes Blocking Warn Option Setting CMC Management CMC Management Guota Setting	Block	Page Cust Customization	omization 2 I>Block Page C ACCESS D Internet acc	ustomization	website has k	een denied k	pased on
<b>I</b>				Restore Def	ault Pr	eview	Арріу

Fig. 2-23 Block Page Customization window

**NOTE**: See Appendix C: Create a Custom Block Page from the R3000 User Guide for information on creating a customized block page using your own design.

**TIP**: An entry in any of the fields in this window is optional, but if an entry is made in the Link Text field, a corresponding entry must also be made in the Link URL field.

- 1. Make an entry in any of the following fields:
  - In the **Header** field, enter a static header to be displayed at the top of the block page.
  - In the **Description** field, enter a static text message to be displayed beneath the block page header.
  - In the Link Text field, enter text for the link's URL to be displayed beneath the Description in the block page, and in the Link URL field, enter the corresponding hyperlink in plain text using the http:// or https:// syntax.

Any entries made in these fields will display centered in the customized block page, using the Arial font type.

2. Click Apply.

**TIP**: Click **Restore Default** and then **Apply** to revert to the default text in this window.

#### Preview sample block page

1. Click **Preview** to launch a separate browser window containing a sample customized block page, based on entries saved in this window and in the Common Customization window:

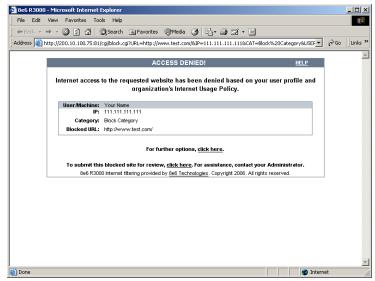


Fig. 2-24 Sample Customized Block Page

By default, the following data displays in the User/ Machine frame:

- User/Machine field The username displays for the NT/LDAP user. This field is blank for the IP group user.
- IP field The user's IP address displays.
- **Category** field The name of the library category that blocked the user's access to the URL displays. If the content the user attempted to access is blocked by an Exception URL, "Exception" displays instead of the library category name.
- **Blocked URL** field The URL the user attempted to access displays.

By default, the following standard links are included in the block page:

- **HELP** Clicking this link takes the user to 8e6's Technical Support page that explains why access to the site or service may have been denied.
- **8e6 Technologies** Clicking this link takes the user to 8e6's Web site.

By default, these links are included in the block page under the following conditions:

- For further options, <u>click here</u>. This phrase and link is included if any option was selected at the Reauthentication Options field in the Block Page Authentication window. Clicking this link takes the user to the Options window, described in the Options page subsection.
- To submit this blocked site for review, <u>click here</u>. -This phrase and link is included if an email address was entered in the Submission Email Address field in the Common Customization window. Clicking this link launches the user's default email client. In the composition window, the email address from the Submission Email Address field populates the "To" field. The user's message is submitted to the global administrator.
- 2. Click the "X" in the upper right corner of the window to close the sample customized block page.

**TIP**: If necessary, make edits in the Block Page Customization window or the Common Customization window, and then click **Preview** in this window again to view a sample block page.

## Set up Group Administrator Accounts

The global administrator creates group administrator (Sub Admin) accounts so that these group administrators can be assigned to manage specific NT or LDAP entities set up in the Group tree. Sub Admin group administrator accounts are set up in the Administrator window from the System section of the console.

٢

**NOTE**: IP group administrator accounts are set up in the IP branch of the Group tree when new IP groups are created. See Chapter 2: Group screen from the Global Administrator Section of the R3000 User Guide for information on creating IP groups.

## Add Sub Admins to manage groups, users

Control Sys Network A Administrator Secure Logon C Diagnostics Alert A Patch	Administrator ystem>Administrator Administrator Acco Current User Accour admin jsmith tjones		Admin	уре	Delete
			Sub Admin Sub Admin		
Customization U     CMC Management     Quota Setting P     Customization CMC Management	Account Details Username Password Confirm Password Type	×			Aodify

Click Administrator to display the Administrator window:

Fig. 2-25 Administrator window

#### Add a group administrator account

To add an NT/LDAP group administrator (Sub Admin) account:

- 1. In the Account Details frame, enter the username in the **Username** field.
- 2. In the **Password** field, enter eight to 20 characters including at least one alpha character, one numeric character, and one special character. The password is case sensitive.
- 3. Make the same entry again in the **Confirm Password** field.
- 4. Select "Sub Admin" from the Type pull-down menu.
- 5. Click **Add** to include the username and account type in the Current User list box.

#### Update the group administrator's password

- 1. Select the username from the Current User list box; this action populates the Account Details frame with data.
- 2. In the **Password** field, enter eight to 20 characters for a new password—including at least one alpha character, one numeric character, and one special character. The password is case sensitive.
- 3. Enter the same new password again in the **Confirm Password** field.
- 4. Click **Modify** to apply your settings.

#### Delete a group administrator account

To delete an administrator account:

- 1. Select the username from the Current User list box.
- 2. Click **Delete** to remove the account.

**NOTE**: If a group administrator assigned to an NT/LDAP entity is deleted, that group administrator must be removed from assignment to that NT/LDAP entity and another group administrator set up for assignment to manage that entity. See Chapter 5: Assign/ Set up Groups, Members for information on assigning and reassigning an entity for management.

# **CHAPTER 3: NT AUTHENTICATION SETUP**

**NOTE**: If you are running a Windows 2000 or Windows 2003 Server and are using the NTLM authentication protocol, then you need to make SMB Signing "not required." See Appendix B: Disable SMB Signing Requirements for steps on how to disable SMB Signing restrictions.

## Join the NT Domain

In the System section of the console, click Authentication and select Authentication Settings from the pop-up menu to display the Authentication Settings window:

HOME SY	STEM GROUP	LIBRARY	REPORTING	HELP	QUIT	
HOME SY System Control Network Administrator Secure Logon Diagnostics Alert Patch Synchronization Mode Athentiostion NC Mode Backup/Restore Reset Radius Authentication Setting Strikes Blocking Warn Option Setting Usamo Setting Customization CMC Management Quota Setting	Authentication S     System>Authenticatio     The current authentics     Settings     R3000 NetBIOS Name:     IP Address to Use for Au     NIC Device to Use for Au     NIC Device to Use for Au     NT Authentication     Name of Domain     PDC NetBIOS Name     PDC IN Address     Administrator Dassword     Warning! If values in I     changes take effect.	ettings m-Authenticatio tion mode is Ena rer e for Authentication thentication Server Details	n Settings abled. 190.160.240.4 190.160.240.4 190.160.250.5 LAN2 QC 2000ADNATIV 190.160.240.4 Administrator	8 5 7 <u>6</u> 8		Apply make the
			eutor enange, prou	Save		Domain

Fig. 3-1 Authentication Settings window

Information should only be entered in the NT Authentication Server Details frame if the R3000 will use the NT Authentication method to authenticate users. **NOTE**: The following Windows servers are supported by the current version of authentication: NT 4.0 SP4 or later, Mixed Mode 2000, and 2003. A Windows 2003 server may require changes to the default settings for SMB signing to allow communications.

The account that is provided for accessing the Windows server must have the administrative rights to add a machine account to the specified domain on the R3000. This requirement ensures the R3000 will be able to authenticate users from the Windows domain.

- 1. Enter the alphanumeric **Name of Domain** on which this server resides, using capital letters.
- 2. Using capital letters, enter up to 15 alphanumeric characters of the **PDC NetBIOS Name**, which is the computer name of the authentication server, or Primary Domain Controller.
- 3. Enter the **PDC IP Address**, which is the authentication server's IP address.
- 4. Enter the Administrator Username and Administrator **Password**. This account used for joining the domain must have administrator privileges.
- 5. Click **Join Domain** to save your entries and to submit a request for the R3000 to join the domain.

**TIP**: If entries in the NT Authentication Server Details frame are modified after joining the domain, you must join the domain again.



**NOTE**: Click **Save** if you are only pre-configuring the box. This option lets you save credentials without re-entering the information each time the domain is joined, or if the R3000 gets out of sync with the Primary Domain Controller.

## **Create an NT Domain**

After joining the domain, go to the Group section of the console and add an NT domain that contains entities to be authenticated.

## Add an NT domain

1. Click NT in the navigation panel to open the pop-up menu, and select Add Domain to open the Create Domain Controller dialog box:

Create Domain Controller	×
Domain Name	ac
Domain Controller	2000adnative
IP Address	190.160.250.2
UserName	administrator
Password	*****
Confirm Password	*****
Apply	Cancel
Java Applet Window	

Fig. 3-2 Create Domain Controller

2. In the **Domain Name** field, enter the name of the domain on which the R3000 resides, using capital letters.



**NOTES**: The Domain Name must be the same name entered in the Authentication Settings window's Name of Domain field.

The alphanumeric NT domain name must be at least two characters but less than 64 characters in length, and can contain a hyphen (-) and underscore (\_), though the hyphen cannot be the first or last character of the name.

- 3. In the **Domain Controller** field, enter the name of the authentication server for the domain.
- 4. Enter the domain controller's IP Address.

- 5. In the **UserName** field, enter the username of the administrator.
- 6. Enter the password in the **Password** and **Confirm Password** fields.
- 7. Click **Apply** to add the domain to the tree.

## Refresh the NT branch

Click NT in the navigation panel to open the pop-up menu, and select **Refresh** whenever changes have been made in this branch of the tree.

### View or modify NT domain details

#### **Domain Settings**

 Double-click NT in the navigation panel to open the NT branch of the Group tree. Select the NT domain you added, and choose Domain Details from the pop-up menu to display the default Settings tab of the NT Domain Details window:

HOME S	YSTEM GROUP LIBRA	RY REPORTING	HELP	QUIT	
HOME S Group - Gobal Group 관재 제 바~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	YSTEM GROUP LIBRA Settings Default Rule Domain Settings Controls Controls Controls Control Password Confirm Password		e 2	QUIT	
					Modify

Fig. 3-3 NT Domain Details window, Settings tab



**NOTE**: To enter profile information for NT groups and users once domain settings are established, see Set up NT Domain Groups, Members.

- 2. For the Domain Settings:
  - The **Domain Name** entered in the Create Domain Controller dialog box displays greyed-out and cannot be modified.
  - The following fields can be modified: name of the domain Controller, IP Address, User Name, Password, and Confirm Password.

Whenever criteria on this tab is modified:

- a. The password from the Password field must be entered in the **Confirm Password** field for verification.
- b. Click Modify to apply your settings.

### Default Rule

1. Click the Default Rule tab to display the Default Rule settings of the NT Domain Details window:

HOME S	YSTEM GF	ROUP	IBRARY	REPORTING	HELP	QUIT	1
HOME S Group Global Group H H P H A LOCSYS H A LOCSYS H A LOCY H A LOCY H A LOCY	YSTEM GF Settings Defa Default Ru Group>NT>OC Default Rule Default Redired Filter Options	ult Rule     e ? >Default Ru	ile Ruie ©	REPORTING a0 Minimum Filtering Le Default Block Page Custom URL: Custom URL: Custom URL: Strikes Blocking Google/Yahooi /Ask.cc	wel	5earch Enfor	<b>x</b> cement
				Search Engine Keywor	ntrol		Modify

Fig. 3-4 NT Domain Details window, Default Rule tab

- 2. For the Default Rule:
  - "Rule0, the Minimum Filtering Level" displays by default as the **Default Rule**. If this rule is used, it will be applied to all groups and members in the NT domain without a filtering profile established.
  - "Default Block Page" is selected by default as the Default Redirect URL. If the default block page is used, it will be applied to all groups and members in the NT domain without a filtering profile established. If "Custom URL" is selected, a URL must be entered in the corresponding text box.

• Filter Options that have been selected display check marks in corresponding checkboxes for "X Strikes Blocking", "Google/Yahoo!/Ask.com/AOL Safe Search Enforcement", "Search Engine Keyword Filter Control", "URL Keyword Filter Control", and "Extend URL Keyword Filter Control".

Whenever criteria on this tab is modified, click **Modify** to apply your settings.

## Delete an NT domain

To delete a domain profile, choose Delete from the NT domain menu. This action removes the domain from the tree.

## Set up NT Domain Groups, Members

In the navigation panel, the NT domain branch of the tree menu includes options for setting up groups and/or members in the domain so that filtering profiles can later be created. The following options are used in this setup process: Select Group/Member from Domain, Set Group Priority, Manually Add Member, Manually Add Group, and Upload User/Group Profile.

### Add NT groups, members to the tree

Before you can create filtering profiles for groups and/or members in a domain, you must first add the groups and/or members to the tree list for that domain.

HOME	SYSTEM	GROUP	LIBRARY	REPORTIN	G HELP	QUIT	
Group ④ Global Group ④ 교육 P □ - 공축 NT ⊕ - ஃ LOGSYS 단 - 공축 LOAP	Select Group>N Add Pr Available Cert Pub DnsUpda Domain ( Domain (	Groups/M T>QC>Select offile for Gro Groups lishers ateProxy Controllers Suests olicy Creator Ov m-1	embers from GroupsMembers ups/Members	n Domain ? s from Domain			
	Available Administ			Sel *	ected Members	ed Groups & M	lembers

Fig. 3-5 Select Groups/Members from Domain window

Select the NT domain, and choose Select Group/Member from Domain from the pop-up menu to display the Select Groups/Members from Domain window (see Figure 3-5).

To add groups—that need filtering profiles—to the tree list:

- 1. Choose a group from the Available Groups list box.
- 2. Use the right arrow button (>) to move the group to the Selected Groups list box.

If necessary, select a group and use the left arrow button (<) to move the group back to the Available Groups list box.

To add group members—who need filtering profiles—to the tree list:

- 1. Choose the group from the Available Groups list box.
- 2. Click **Show Members** to display group members in the Available Members list box.
- 3. Choose a member from the Available Members list box, and use the right arrow button (>) to move the group to the Selected Members list box.

If necessary, select a member and use the left arrow button (<) to move the member back to the Available Members list box.

When all entities who need filtering profiles have been added to the selected Groups and/or Selected Members list box(es), click **Add Selected Groups & Members** to add them within the domain's section of the tree list.



**NOTE**: See Add or maintain an entity's profile under Create and Maintain Filtering Profiles in Chapter 5 for information on defining the filtering profile for the group. WARNING: When adding an NT group or member to the tree list, the group/member will be blocked from Internet access if the minimum filtering level has not been defined via the Minimum Filtering Level window. If you have just established the minimum filtering level, filter settings will not be effective until the group member/user logs off and back on the server. Refer to the R3000 User Guide for more information on the minimum filtering level.

## Specify a group's filtering profile priority

 Select the NT domain, and choose Set Group Priority from the pop-up menu to display the Set Group Priority window:

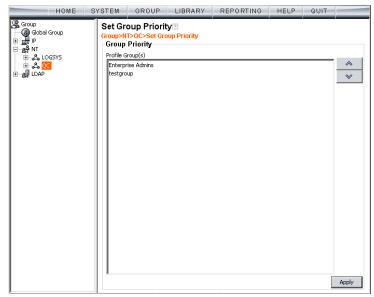


Fig. 3-6 Set Group Priority window

This window is used for designating which group profile will be assigned to a user when he/she logs in. If a user is a member of multiple groups, the one that is positioned highest in the list is applied. **NOTES**: Groups automatically populate the Profile Group(s) list box, if these groups have one or more identical users and were added to the tree list via the Select Groups/Members from Domain window.

An entry for the Group Priority list is added to the end of the list when the group profile for that group is added to the R3000, and is removed automatically when you delete the profile.

- 2. To change the filtering priority of groups:
  - a. Select a group from the Profile Group(s) list box.
  - b. Use the up or down arrow button to move that group up or down in the list.
  - c. Click Apply to apply your settings.

### Manually add a user's name to the tree

1. Select the NT domain, and choose Manually Add Member from the pop-up menu to open the Manually Add Member dialog box:

Manually Add Member					
Please enter the user name	_				
OK Cancel					
Java Applet Window					

Fig. 3-7 Manually Add Member box

This dialog box is used for adding a username to the tree list, so that a filtering profile can be defined for that user.

2. Enter the username in the text box, up to 16 characters.

**TIP**: NT usernames should be entered without breaks or spaces. The first character must be a letter. The following ASCII characters can be used: "A-Z", "a-z", "0-9", "\_" (underscore), and "-" (hyphen).

Examples: TJONES JSmith Jane\_Doe Doe-John

- 3. Click **OK** to add the username to the domain's section of the tree.
- NOTE: See Add or maintain an entity's profile under Create and Maintain Filtering Profiles in Chapter 5 for information on defining the filtering profile for the user.

## Manually add a group's name to the tree

1. Select the NT domain, and choose Manually Add Group from the pop-up menu to open the Manually Add Group dialog box:

Manually Add Group	×
Please enter the group name	
OK Cancel	
Java Applet Window	

Fig. 3-8 Manually Add Group box

This dialog box is used for adding a group name to the tree list, so that a filtering profile can be defined for that group.

- 2. Enter the group's name in the text box.
- 3. Click **OK** to add the group name to the domain's section of the tree.



**NOTE**: See Add or maintain an entity's profile under Create and Maintain Filtering Profiles in Chapter 5 for information on defining the filtering profile for the group.

## Upload a file of filtering profiles to the tree

1. Select the NT domain, and choose Upload User/Group Profile from the pop-up menu to display the Upload User/ Group Profile window:

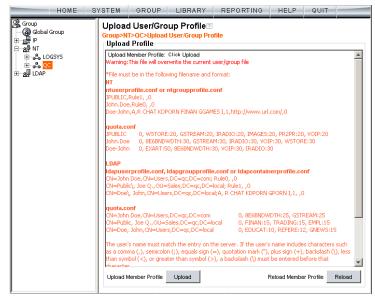


Fig. 3-9 Upload User/Group Profile window

This window is used for uploading a file to the tree with user or group names and their associated filtering profiles.

2. Click **Upload** to open the Upload Member Profile File pop-up window:

🖉 Upload Member Profile File - Microsoft Internet Explorer 📃 🔍
File Edit View Favorites Tools Help
← Back → → → ② ② ④ 🖓   ② Search 💿 Favorites ③ Media ③ 🔹 👋
Address 🗃 http://200.10.100.75:88//R3000/servlet/com.r3000.se 💌 🔗 Go 🛛 Links »
A
Upload Member Profile File
File Browse Upload File
🖉 Upload Member Profile File

Fig. 3-10 Upload Member Profile File window

- 3. Click Browse to open the Choose file window.
- 4. Select the file to be uploaded.

**WARNING**: Any file uploaded to the server will overwrite the existing user/group profile file.

Each user/group profile in the file uploaded to the server *must be* set up in a specified format in order for the profile to be activated on the server. This format differs depending on whether the profiles are user or group profiles, or quota profiles. Based on the type of file format used, the file should have the following name:

- · ntuserprofile.conf if the file contains NT user profiles
- ntgroupprofile.conf if the file contains NT group profiles
- quota.conf if the file contains NT user profiles or group profiles with quotas included. A quota in a profile indicates the user can spend a specified amount of time at a designated passed library category before he/she is blocked from further accessing URLs in that category.

NOTE: See Appendix E: User/Group File Format and Rules for examples of valid filtering profile formats to use when creating a list of profiles to be uploaded to the server. WARNING: When uploading a list of profiles to the tree list, the user will be blocked from Internet access if the minimum filtering level has not been defined via the Minimum Filtering Level window. If you have just established the minimum filtering level, filter settings will not be effective until the user logs off and back on the server. Refer to the R3000 User Guide for more information on the minimum filtering level.

- 5. Click **Upload File** to upload this file to the server. The Upload Successful pop-up window informs you to click Reload in order for these changes to be effective.
- 6. Click Reload.
- 7. Go to the NT branch of the tree, and choose **Refresh** from the NT group menu.

# CHAPTER 4: LDAP AUTHENTICATION SETUP

## **Create an LDAP Domain**

In the Group section of the console, add an LDAP domain that contains entities to be authenticated.

## Add the LDAP domain

 Click LDAP in the navigation panel to open the pop-up menu, and select Add Domain to open the Create LDAP Domain dialog box:

Create LDAP Domain		
LDAP Server IP/Hostname	190.160.20.54	
LDAP Server Port	389	
LDAP Domain Label	TEST	
Apply	Cancel	
Java Applet Window		

Fig. 4-1 Create LDAP Domain box

- 2. In the **LDAP Server IP/Hostname** field, enter either the IP address or the hostname of the authentication server.
- 3. In the **LDAP Server Port** field, enter the LDAP server port number. By default, enter **389**.
- 4. In the **LDAP Domain Label** field, enter the name of the LDAP domain. This entry does not need to match the NetBIOS name.

٢

**NOTE**: The alphanumeric LDAP domain name must be at least two characters but less than 64 characters in length, and can contain a hyphen (-) and underscore (\_), though the hyphen cannot be the first or last character of the name. 5. Click **Apply** to add the domain to the tree. This action takes you directly to the LDAP domain window (see View, modify, enter LDAP domain details).

## Refresh the LDAP branch

Click LDAP in the navigation panel to open the pop-up menu, and select **Refresh** whenever changes have been made in this branch of the tree.

## View, modify, enter LDAP domain details

Double-click LDAP in the navigation panel to open the LDAP branch of the Group tree. Select the LDAP domain you added, and choose Domain Details from the pop-up menu to display the default Type tab of the LDAP Domain Details window:

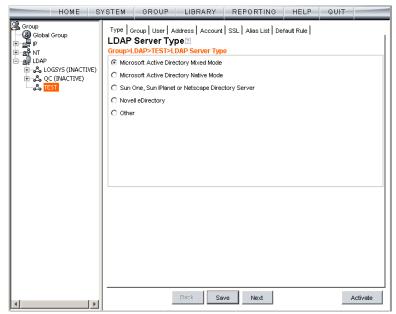


Fig. 4-2 Domain Details window, Type tab

The LDAP domain window is comprised of the following wizard tabs: Type, Group, User, Address, Account, SSL, Alias List, and Default Rule. By going through the entire wizard, domain details are established for the LDAP domain, preparing the LDAP domain for group and user filtering profile setup. After all entries are made on the wizard tabs, the domain can be activated.

WARNING: The instructions in this user guide have been documented based on standard default settings in LDAP for Microsoft Active Directory Services. The suggested entries and examples may not be applicable to all other server types, or if any changes have made to default settings on the LDAP Active Directory server.

### LDAP Server Type

Based on the entries made when creating the LDAP domain, the R3000 will attempt to auto-detect the type of server being used, and if successfully detected, the appropriate LDAP Server Type radio button will be pre-selected on the Type tab.

 If making a selection on this tab, the following options are available: "Microsoft Active Directory Mixed Mode", "Microsoft Active Directory Native Mode", "Sun One, Sun IPlanet or Netscape Directory Server", "Novell eDirectory", and "Other". If the server type is not detected, "Other" will be selected.

The server type setting on this tab defines the content that displays on all other tabs of the wizard.



**NOTE**: If the server type is changed on this tab, object type settings will be overwritten with the new object type settings. User settings will not be modified.

- 2. If a selection was made on this tab, click **Save** to save your setting.
- 3. Click **Next** to go to the Group tab.

WARNING: The contents of the tabs for User and Group do not normally need to be changed. The settings on these tabs are made automatically when you select the server type at the beginning of the setup process. Unless you have made changes to the Schema of your LDAP server and are sure of the consequences of altering these settings, **do not** alter anything in these tabs. The only action you need to execute on these tabs is to confirm the settings by clicking the **Next** button at the bottom of the window, until you reach the Address tab.

### **Group Objects**

The Group tab is used for including or excluding group objects in the LDAP domain.

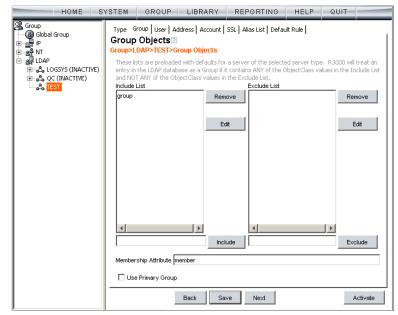


Fig. 4-3 Domain Details window, Group tab

By default, this tab is populated as follows:

- The **Include List** is populated with appropriate group objects, based on the server type.
- The **Membership Attribute** field is populated with the name of the LDAP attribute from the group record that identifies members of the group.
- Generally, no action needs to be performed on this tab. However, under special circumstances, the following actions can be performed:
  - A group object can be added or excluded by making an entry in the appropriate field, and then clicking the **Include** or **Exclude** button.
  - A group object name can be edited by selecting the group object from the appropriate list box, editing the name in the field, and then clicking the **Edit** button.
  - A group object can be removed by selecting the group object and then clicking **Remove**.
- 2. Based on the selected server type, one of the following checkboxes is available for specifying a particular group profile assignment, if necessary:
  - If using Active Directory, the "Use Primary Group" checkbox displays on this tab. You may wish to check this box to indicate that profiles based on user groups should be assigned to users.
  - If using Novell eDirectory or Sun ONE, the "Use Dynamic Group" checkbox displays on this tab. You may wish to check this box to indicate that profiles based on dynamic groups should be assigned to users.
- 3. If any modifications were made on this tab, click Save.
- 4. Next to go to the User tab.

### **User Objects**

The User tab is used for including or excluding user objects in the LDAP domain.

HOME S	YSTEM GROUP	LIBRARY	REPORTING	HELP Q	UIT
응 Group 단 대한 P 단 관 P 단 소설 NT 단 소설 LDAP 만 소실 LDAP 만 소실 LOAYS (INACTIVE) 단 소실 QC (INACTIVE)	Type Group User A User Objects? Group>LDAP>TEST>U These lists are preloade entry in the IDAP data and NOT ANY of the Ob Include List User	Jser Objects ad with defaults for a base as a User fit icc pjectClass values in t	e server of the selecte Inteins ANV of the Ob he Exclude List. Exclude List computer	d server type. R3	
		Back Save	Next		Activate

Fig. 4-4 Domain Details window, User tab

By default, the Include List and Exclude List are populated with appropriate user objects, based on the server type.

- 1. Generally, no action needs to be performed on this tab. However, under special circumstances, the following actions can be performed:
  - A user object can be added or excluded by making an entry in the appropriate field, and then clicking the **Include** or **Exclude** button.
  - A user object name can be edited by selecting the user object from the appropriate list box, editing the name in the field, and then clicking the **Edit** button.

- A user object can be removed by selecting the user object and then clicking **Remove**.
- If the user DN cannot be auto-detected during the profile setup process, click "Use Case-Sensitive Comparison" to perform a manual comparison check.
- 2. If any modifications were made on this tab, click Save.
- 3. Click **Next** to go to the Address tab.

### **Address Info**

The LDAP domain address information populates the Address tab:

HOME S'	STEM GROUP	LIBRARY	REPORTING	HELP	QUIT	
HOME S	STEM GROUP Type   Group   User A Address Info Group>LDAP>TEST>I Server DNS Name Server IP Address DNS Domain Name NETEIOS Domain Name Server LDAPS Port Server LDAPS Port LDAP Query Base	Address Account	SSL   Alias List   Defau		GUII	
		Back Sa	ve Next			Activate

Fig. 4-5 Domain Details window, Address tab

**NOTE**: If the DNS settings are not published in the LDAP directory, the Server DNS Name, DNS Domain Name, and LDAP Query Base fields will not be populated automatically. Functioning forward and reverse DNS name resolution is one of the requirements for LDAP authentication. Please ensure the correct DNS settings are set.

- 1. This tab includes the following fields, some pre-populated by default, and some that you may wish to edit:
  - The Server DNS Name field should contain the DNS name of the server. If this field is already populated, it may need to be edited if there is more than one DNS server available.



**NOTES**: If your LDAP server's name is not a resolvable, fully qualified DNS name, you may be able to enter the domain name.

If using a Novell server, be sure the Server DNS Name exactly matches the name on the SSL certificate that will be uploaded to the server.

- The **Server IP Address** that displays by default is the one that was entered in the LDAP Server IP field of the Create LDAP Domain dialog box.
- The DNS Domain Name should be the DNS name of the LDAP domain, such as logo.com, and may need to be edited if the entire domain name does not display by default.

**NOTES**: If your LDAP server's name is not a resolvable, fully qualified DNS name, you may be able to enter the domain name.

If using a Novell server, be sure the DNS Domain Name exactly matches the name on the SSL certificate that will be uploaded to the server.

- If necessary, the **NETBIOS Domain Name** can be entered.
- By default, 636 displays in the Server LDAPS Port field.

- By default, the value that was entered in the LDAP Server Port field of the Create LDAP Domain dialog box displays in the Server LDAP Port field.
- By default, the LDAP Query Base displays the root of the LDAP database to query using the LDAP Syntax, e.g. DC=domain,DC=com, or o=server-org. The entry in this field is case sensitive and should be edited, if necessary.

If this field is not populated, enter the LDAP query base.

- 2. If any modifications were made on this tab, click **Save**.
- 3. Click Next to go to the Account tab.

### Account Info

The Account Info tab is used for specifying the account information needed for binding to the LDAP database.

HOME S	YSTEM GROUP LIBRARY REPORTING HELP QUIT
응, Group - 영 Gobal Group 한 말 P 한 왕 NT 는 왕 LDAP 한 공 LOAP 한 공 LOAP 한 공 C (INACTIVE) - 유 IEST	Type   Group   User   Address Account   SSL   Alias List   Default Rule   Account Info Group>LDAP>TEST>Account Info
	🗆 Use Anonymous Bind
	LDAP Account Name n=Users,dc=qc2domain,dc=local
	Password
	Confirm Password
	Distinguished Name Auto Discovery         A "distinguished name" (e.g.: CN=administrator, CN=users, DC=xyz, DC=com) must be entered in the "LDAP Account Name" box above. To find the "distinguished name" for a user, please click on the "Find Distinguished Name button and enter the username (e.g.: Administrator), domain name (if needed), and password.         Find Distinguished Name
	Back Save Next Activate

Fig. 4-6 Domain Details window, Account tab

**NOTE**: The Distinguished Name Auto Discovery frame only displays if the type of LDAP server is Microsoft Active Directory.

- 1. Do one of the following:
  - If your LDAP database does not require a username to be provided in order to bind to the LDAP database, click the "Use Anonymous Bind" checkbox to grey out the fields—and Find Distinguished Name button, if it displays—in this tab.
  - If you know the authorized user's full LDAP Distinguished Name, enter it in the LDAP Account Name field. For example, enter the entire string in a format such as:

cn=Administrator,cn=Users,dc=qc2domain,dc=local

or

cn=admin,o=logo-org

Then enter the password in the **Password** and **Confirm Password** fields.

 For an Active Directory LDAP server type, if you do not know the authorized user's full LDAP Distinguished Name, click Find Distinguished Name in the Distinguished Name Auto Discovery frame to open the Distinguished Name Auto Discovery pop-up box:

Distinguished Name Auto Discovery		
User Name		
Domain Name		
Password		
Confirm Password		
Find Distinguished	Name Cancel	
Java Applet Window		

Fig. 4-7 Distinguished Name Auto Discovery box

Make entries in the following fields:

- a. **User Name** administrator's user name (e.g. *administrator*).
- b. Domain Name name of the domain (e.g. *logo.com*). This field displays greyed out if it was already included on the Address Info tab.
- c. Password and Confirm Password.

Click **Find Distinguished Name** to perform the search for the LDAP Distinguished Name. If the administrator's user name and password are successfully retrieved, the pop-up box closes and the fields on this tab become populated with appropriate data.

**NOTE**: Once the Distinguished Name and password are successfully saved on this tab, the Distinguished Name Auto Discovery frame will no longer display at the bottom of this tab.

- 2. Click Save to save your entries.
- 3. Click **Next** to go to the SSL tab.

### **SSL Settings**

SSL settings should be made if your network requires a secure connection from the R3000 to the LDAP server.

HOME S	YSTEM GROUP LIBRARY REPORTING HELP QUIT
응 Group ← 영 Gobal Group 응 값 LDAP 응 값 LDAP 응 값 LOSYS (INACTIVE) 응 값 COC (INACTIVE) ← 값 TEST	Type   Group   User   Address   Account       SSL   Alias List   Default Rule           SSL Settings:       Group>LDAP>TEST>SSL Settings         Imanually Upload SSL Certificate for LDAPS         Enter the path to the SSL certificate for your LDAP server. This certificate is required to communicate with your LDAP server with secure encryption.         The certificate should be a Base64 encoded .der or .cer format SSL Certificate.         Upload         Xutomatically Upload SSL Certificate for LDAPS         R3000 can automatically generate and upload SSL certificate for your LDAP server.         Make secure LDAP is properly set up and the hostname you specified for your LDAP server is correct. Depending on the network environment, the time it takes to fetch the certificate can vary. You may wait up to 15 seconds.         Upload       Wat         3       seconds for certificate
	Back Save Next Activate

Fig. 4-8 Domain Details window, SSL tab

**NOTE**: See Appendix C: Obtain, Export an SSL Certificate for information on how to obtain a Sun ONE server's SSL certificate, or how to export an Active Directory or Novell server's SSL certificate to your desktop and then upload it to the R3000.

 If applicable, click in the "Enable Secure LDAP over SSL" checkbox. This action activates the Upload buttons in the Manually Upload SSL Certificate for LDAPS frame and the Automatically Upload SSL Certificate for LDAPS frame.

- 2. To automatically upload an SSL certificate, go to the Automatically Upload SSL Certificate for LDAPS frame and do the following:
  - a. In the **Wait \_\_\_\_\_seconds for certificate** field, by default 3 displays. Enter the number of seconds to wait before the certificate is automatically uploaded.
  - b. Click Upload to upload the certificate.

To manually upload an SSL certificate, go to the Manually Upload SSL Certificate for LDAPS frame and do the following:

a. Click the **Upload** button to open the Upload SSL Certificate for LDAPS pop-up window:

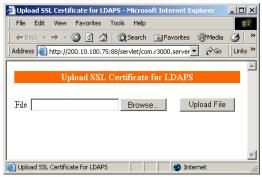


Fig. 4-9 Upload SSL Certificate for LDAPS

- b. Click **Browse** to open the Choose file window and select the R3000 server's SSL certificate.
- c. Click **Upload File** to upload the SSL certificate to the R3000 server.

WARNING: If using a Novell server, be sure the name on the SSL certificate (to be uploaded to the server) matches the Server DNS Name entered in the Address Info tab.

- 3. Click Save.
- 4. Click Next to go to the Alias List tab.

### Alias List

The Alias List will be automatically populated if the Account Name was entered in the Account tab. This list includes all alias names for the domain that will be included in the Alias pull-down menu in the Authentication Request Form.

Group ③ Global Group 률 IP ഏද NT - 월 LDAP 윤 곳 LOGSYS (INACTIVE)	Type   Group   User   A Alias List? Group>LDAP>TEST>A	ddress   Account   SSL   Alias List    Default Rule   lias List		
🗄 🖧 QC (INACTIVE)	Alias Name	LDAP Container Name	Alias Enabled	
Sector Contraction Contraction	Builtin	CN=Builtin,DC=gc2domain,DC=local	<u> </u>	-
	Idapgroup	OU=ldapgroup,DC=qc2domain,DC=local	2	
	QCcontainer1000_M	OU=QCcontainer1000,OU=MasterContainer,D	V	
	QCcontainer1001_M	OU=QCcontainer1001,OU=MasterContainer,D		
	QCcontainer1002_M	OU=QCcontainer1002,OU=MasterContainer,D	V	
	QCcontainer1003_M	OU=QCcontainer1003,OU=MasterContainer,D		
	QCcontainer1004_M	OU=QCcontainer1004,OU=MasterContainer,D	V	
	QCcontainer1005_M	OU=QCcontainer1005,OU=MasterContainer,D		
	QCcontainer1006_M	OU=QCcontainer1006,OU=MasterContainer,D	V	
	QCcontainer1007_M	OU=QCcontainer1007,OU=MasterContainer,D		
	QCcontainer1008_M	OU=QCcontainer1008,OU=MasterContainer,D	V	
	QCcontainer1009_M	OU=QCcontainer1009,OU=MasterContainer,D	V	
	QCcontainer100_Ma	OU=QCcontainer100,OU=MasterContainer,DC	V	
	QCcontainer1010_M	OU=QCcontainer1010,OU=MasterContainer,D	V	
	QCcontainer1011_M	OU=QCcontainer1011,OU=MasterContainer,D	V	
	QCcontainer1012_M	OU=QCcontainer1012,OU=MasterContainer,D	V	
	QCcontainer1013_M	OU=QCcontainer1013,OU=MasterContainer,D	V	
	QCcontainer1014_M	OU=QCcontainer1014,OU=MasterContainer,D	V	
	QCcontainer1015_M	OU=QCcontainer1015,OU=MasterContainer,D		
	QCcontainer1016_M	OU=QCcontainer1016,OU=MasterContainer,D	V	
	QCcontainer1017_M	OU=QCcontainer1017,OU=MasterContainer,D	<b>V</b>	-
	Reload OU List	E	Enable/Disable Al	

Fig. 4-10 Domain Details window, Alias List tab

However, if there are many alias names to be loaded, the tab initially displays without any data and the Search in Progress box opens:

Search in Prog	jress	×
The LDAP set	rver is returning a substantial amount of data.	
Please wait v	vhile the search is in progress.	
Java Applet Win	dow	
Fin: 4 44	Coorde in Dragman have	

Fig. 4-11 Search in Progress box

After the search is completed, the Search in Progress box closes, and the list displays the Alias Name and the corresponding LDAP Container Name.



**NOTE**: If the alias list does not display, double-check the settings on the other tabs and verify that all of your settings are correct.

- 1. The following actions can be performed on this tab:
  - An Alias Name can be edited by double-clicking the Alias Name in the designated row, and then making your modifications.
  - If an Organizational Unit (OU) has been deleted from the LDAP directory but has already been added to the alias list, the list can be reloaded by clicking the **Reload OU List** button. When clicking this button, the Search in Progress box opens and the domain becomes inactive and will need to be reactivated.
  - By default, all items are selected for inclusion in the alias list, as indicated by a check mark in the Alias Enabled checkbox. To deselect an item, click the checkbox to remove the check mark.
  - To select or deselect all items in the list, click the **Enable/Disable All** button. This button lets you toggle between these two operations.
- 2. If any modifications were made on this tab, click Save.
- 3. Click Next to go to the Default Rule tab.

### **Default Rule**

The Default Rule applies to any authenticated user in the LDAP domain who does not have a filtering profile.

HOME S	YSTEM GROUP LIBRARY REPORTING HELP QUIT
Group → Godal Group → BP → BP → BA IDAP → AL LOAP → AL LOA	Type [ Group ] User ] Address ] Account ] SSL ] Alias List Default Rule ]         Default Rule [2]         Group>LDAP>TEST>Default Rule         Select one of the following as the default rule:         Rule 0: Minimum Filtering Level         Specify a redirect URL:         © Default Block Page         © Custom URL:         Filter Options:         ☑ Society Ask.com/AOL Safe Search Enforcement         ☑ Search Engine Keyword Filter Control         ☑ Extend URL Keyword Filter Control         ☑ Extend URL Keyword Filter Control         Backup Server Configurations:         Add       Modify         Defete

Fig. 4-12 Domain Details window, Default Rule tab

- 1. This tab is comprised of the following components that can be modified:
  - By default, "Rule0" is the default rule. This rule can be changed by making another selection from the pull-down menu.
  - To specify the type of redirect URL to be used for users who do not have a filtering profile, click the radio button corresponding to "Default Block Page", or "Custom URL".

If Custom URL is selected, enter the redirect URL in the text box.

- Click the checkbox(es) corresponding to the option(s) to be applied to the filtering profile: "X Strikes Blocking", "Google/Yahoo!/Ask.com/AOL Safe Search Enforcement", "Search Engine Keyword Filter Control", "URL Keyword Filter Control". If URL Keyword Filter Control is selected, the "Extend URL Keyword Filter Control" option can be selected.
- To specify a backup server for use with this LDAP server in the event the primary server cannot be accessed, see the setup instructions in LDAP Backup Server Configuration.

**NOTE**: If "Novell eDirectory" was selected for the LDAP Server Type, and the Novell eDirectory Agent option was enabled in the Enable/Disable Authentication window in the System section of the console, Novell eDirectory Agent Settings displays above the Backup Server Configurations buttons.

- 2. If any modifications were made on this tab, click Save.
- 3. After all entries have been made in these wizard tabs, click **Activate** to activate the domain.

**TIP**: After the domain is activated, whenever subsequent modifications are made in any of these wizard tabs, Activate must be clicked again to re-activate the domain.



**NOTE**: To enter profile information for LDAP groups and users, see Create and Maintain Filtering Profiles in Chapter 5.

### LDAP Backup Server Configuration

#### Configure a backup server

To add a backup server's settings:

1. Click **Add** to open the Backup Server Configuration wizard pop-up window:

3ackup Server Configur		X
Address Account St Address Info?	su	I
Group>LDAP>TEST>A	address Info	
Server DNS Name		
Server IP Address		
DNS Domain Name	qc2domain.local	
NETBIOS Domain Name		
Server LDAPS Port	636	
Server LDAP Port	389	
LDAP Query Base	DC=qc2domain,DC=local	
Bac	Save Next Close	
ava Applet Window		

Fig. 4-13 Backup Server Configuration, Address Info

**NOTE**: The **Back** and **Save** buttons can be clicked at any time during the wizard setup process. Click **Close** to close the wizard pop-up window.

- 2. Enter, edit, or verify the following criteria:
  - Server DNS Name DNS name of the LDAP server, such as server.logo.local

**NOTES**: If your LDAP server's name is not a resolvable, fully qualified DNS name, you may be able to enter the domain name.

Be sure the Server DNS Name exactly matches the name on the SSL certificate that will be uploaded to the server.

- Server IP Address IP address of the server, such as 100.10.150.30
- **DNS Domain Name** DNS name of the LDAP domain, such as logo.local



**NOTES**: If your LDAP server's name is not a resolvable, fully qualified DNS name, you may be able to enter the domain name.

Be sure the DNS Domain Name exactly matches the name on the SSL certificate that will be uploaded to the server.

- NETBIOS Domain Name an entry in this field is optional
- Server LDAPS Port by default, 636 displays in this field
- Server LDAP Port by default, the value that was entered in the LDAP Server Port field of the Create LDAP Domain dialog box displays in the field
- LDAP Query Base root of the LDAP database to query using the LDAP Syntax, e.g. DC=domain,DC=com or o=server-org.

TIP: The entry in this field is case sensitive.

- 3. Click Save.
- 4. Click Next to go to the Account tab:

Backup Server Configuration	×
Address Account SSL	
Account Info	1
Group>LDAP>TEST>Account Info	Ш
	Ш
	Ш
	Ш
🗖 Use Anonymous Bind	Ш
LDAP Account Name	Ш
Password	Ш
	Ш
Confirm Password	Ш
	Ш
Distinguished Name Auto Discovery	
A "distinguished name" (e.g.: CN=administrator,CN=users,DC=xyz,DC=com) must be entered in the "LDAP Account Name" box above. To find the "distinguished name" for	
a user, please click on the "Find Distinguished Name" button and enter the username	Ш
(e.g.: Administrator), domain name (if needed), and password.	Ш
Find Distinguished Name	
	1
Back Save Next Close	1
Java Applet Window	

Fig. 4-14 Backup Server Configuration, Account Info

**NOTE**: The Distinguished Name Auto Discovery frame only displays if the type of LDAP server is Microsoft Active Directory.

- 5. Enter, edit, or verify the following criteria:
  - "Use Anonymous Bind" click this checkbox to grey out the fields in this tab, if your LDAP database does not require a username to be provided in order to bind to the LDAP database
  - If you know the authorized user's full LDAP Distinguished Name:
    - a. Enter the authorized user's full LDAP Distinguished Name in the **LDAP Account Name** field.

For example:

cn=Administrator,cn=Users,dc=qc2domain, dc=local

or

cn=admin,o=logo-org

- b. Enter the password in the **Password** and **Confirm Password** fields.
- If the LDAP server type is Active Directory, and if you do not know the authorized user's full LDAP Distinguished Name:
  - a. Click **Find Distinguished Name** in the Distinguished Name Auto Discovery frame to open the Distinguished Name Auto Discovery pop-up box (see Fig. 4-8).
  - b. Enter the administrator's **User Name** (e.g. *administrator*).
  - c. Enter the **Domain Name** (e.g. *logo.com*). This field displays greyed out if it was already included on the Address Info tab.
  - d. Enter the password in the **Password** and **Confirm Password** fields.
  - e. Click **Find Distinguished Name** to perform the search for the LDAP Distinguished Name. If the administrator's user name and password are successfully retrieved, the pop-up box closes and the fields on this tab become populated with appropriate data.

**NOTE**: Once the Distinguished Name and password are successfully saved on this tab, the Distinguished Name Auto Discovery frame will no longer display at the bottom of this tab.

- 6. Click Save to save your entries.
- 7. Click **Next** to go to the SSL tab:

up Server Configuration
dress Account SSL
SL Settings 2
up>LDAP>TEST>SSL Settings
Enable Secure LDAP over SSL
anually Upload SSL Certificate for LDAPS
Inter the path to the SSL certificate for your LDAP server. This certificate is equired to communicate with your LDAP server with secure encryption.
'he certificate should be a Base64 encoded .der or .cer format SSL Certificate.
Under and
Upload
utomatically Upload SSL Certificate for LDAPS
13000 can automatically generate and upload SSL certificate for your LDAP serv lake sure secure LDAP is properly set up and the hostname you specified for yo DAP server is correct. Depending on the network environment, the time it takes etch the certificate can vary. You may wait up to 15 seconds.
Upload Wait 3 seconds for certificate
Back Save Next Close

Fig. 4-15 Backup Server Configuration, SSL Settings

SSL settings should be made if your network requires a secure connection from the R3000 to the LDAP server.

**NOTE**: See Appendix C: Obtain, Export an SSL Certificate for information on how to export a server's SSL certficate to your desktop and then upload it to the R3000.

- a. If applicable, click in the "Enable Secure LDAP over SSL" checkbox. This action activates the Upload buttons in the Manually Upload SSL Certificate for LDAPS frame and the Automatically Upload SSL Certificate for LDAPS frame.
- b. To automatically upload an SSL certificate, go to the Automatically Upload SSL Certificate for LDAPS frame and do the following:
  - In the Wait \_\_\_\_\_ seconds for certificate field, by default 3 displays. Enter the number of seconds to wait before the certificate is automatically uploaded.
  - Click **Upload** to upload the certificate.

To manually upload an SSL certificate, go to the Manually Upload SSL Certificate for LDAPS frame and do the following:

- Click the Upload button to open the Upload SSL Certificate for LDAPS pop-up window (see Fig. 4-9).
- Click **Browse** to open the Choose file window and select the R3000 server's SSL certificate.
- Click **Upload File** to upload the SSL certificate to the R3000 server.

**WARNING**: Be sure the name on the SSL certificate (to be uploaded to the server) matches the Server DNS Name entered in the Address Info tab.

- 8. After all entries are made using the wizard, click **Save**.
- 9. Click **Close** to close the wizard pop-up window.

#### Modify a backup server's configuration

- 1. On the Default Rule tab, click **Modify** to open the Backup Server Configuration wizard pop-up window.
- 2. Click the tab(s) in which to make edits for the backup server: Address, Account, SSL.
- 3. Make the necessary edits.
- 4. Click Save.
- 5. Click Close to close the wizard pop-up window.

#### Delete a backup server's configuration

On the Default Rule tab, click **Delete** to remove the backup server's configuration.

## Delete a domain

To delete a domain profile, choose Delete from the LDAP domain menu. This action removes the domain from the tree.

## Set up LDAP Domain Groups, Members

In the navigation panel, the LDAP domain branch of the tree menu includes options for setting up groups and/or members in the domain so that filtering profiles can later be created. The following options are used in this setup process: Select Group/Member from Domain, Set Group Priority, Manually Add Member, Manually Add Group, and Upload User/Group Profile.

## Add LDAP groups, users to the tree

Before you can create filtering profiles for groups and/or members in a domain, you must first add the groups and/or members to the tree list for that domain.

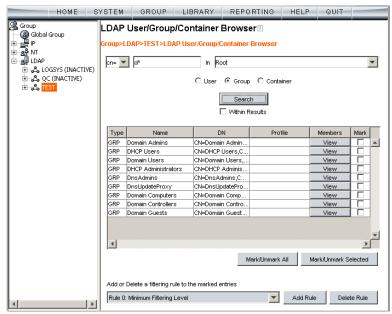


Fig. 4-16 LDAP User/Group/Container Browser window

Select the LDAP domain, and choose Select Group/ Member from Domain from the pop-up menu to display the LDAP User/Group/Container Browser window (see Figure 4-16).

This window is used for retrieving the names of groups, users, or containers from an LDAP domain so that a filtering profile can be assigned.



**NOTES**: If the "Use Dynamic Group" option was specified in the Group tab of Domain Details, "Dynamic Group Enabled" displays towards the bottom left of this window.

See Appendix D: LDAP Server Customizations if using an OpenLDAP server.

### Perform a basic search

- 1. Specify the type of search by clicking the "User", "Group", or "Container" radio button.
- If "User" or "Group" was selected, choose either "cn=" (common name) or "uid=" (user ID) from the pull-down menu for the attribute type used in the LDAP directory. This menu displays greyed-out if "Container" was selected.
- 3. In the input field that follows the pull-down menu, type in the group name, username, or container name exactly as it was entered on the LDAP server, or enter a partial name followed by the asterisk (\*) wildcard.
- 4. Make a selection from the **In** pull-down menu to specify the section of the server to search.
- Click Search to display rows of results in the grid below. The following information is included for each entity: Type (USR, GRP, CTR), Name (as entered on the LDAP server), DN string, Profile (Rule number, if assigned), View button, and Mark checkbox.

### **Options for search results**

The following actions can be performed on search results:

- To narrow the number of records returned by your initial query, click the "Within Results" checkbox, modify your search criteria in the input field, and then click **Search**.
- To query either the list of groups in which a user is a member, or the list of users who are members of a Group Record, click the **View** button in the Members column to display the results in the grid.
- To select or deselect all records in the grid, click Mark/ Unmark All.
- To select or deselect all highlighted records in the grid, click Mark/Unmark Selected. This feature works only if records are first selected in the grid by clicking on them.
  - Multiple records are selected by clicking one record, and then pressing the **Ctrl** key on your keyboard and clicking another record.
  - A block of multiple records is selected by clicking the first record in the block, then pressing the **Shift** key on your keyboard, and then clicking the last record in the block.

## Apply a filtering rule to a profile

To apply a filtering rule to an entity in the grid:

- 1. Go to the Mark column and click the checkbox for that entity.
- 2. Select a filtering rule from the drop-down menu.
- 3. Click **Add Rule** to display the selected Rule number in the Profile column.

When the LDAP branch of the tree is refreshed, all entities with rules applied to them appear in the tree.

### Delete a rule

To delete a rule from a profile, the entity must currently display in the grid and have a rule assigned to the profile.

- 1. Click the Mark checkbox for the entity.
- 2. Click **Delete Rule** to remove the entity's profile from the tree.

## Specify a group's filtering profile priority

1. Select the LDAP domain, and choose Set Group Priority from the pop-up menu to display the Set Group Priority window:

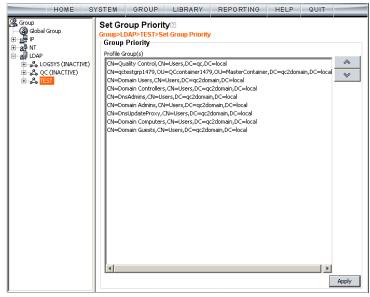


Fig. 4-17 Set Group Priority window

This window is used for designating which group profile will be assigned to a user when he/she logs in. If a user is a member of multiple groups, the one that is positioned highest in the list is applied.



**NOTES**: Groups automatically populate the Profile Group(s) list box, if these groups have one or more identical users and were added to the tree list via the Select Groups/Members from Domain window.

An entry for the Group Priority list is added to the end of the list when the group profile for that group is added to the R3000, and is removed automatically when you delete the profile.

2. To change the order of groups in the list:

- a. Select a group from the Profile Group(s) list box.
- b. Use the up or down arrow button to move that group up or down in the list.
- c. Click **Apply** to apply your settings.

## Manually add a user's name to the tree

1. Select the LDAP domain, and choose Manually Add Member from the pop-up menu to open the Manually Add Member dialog box:

Manually Add Member	X
Please enter the user name	
OK Cancel	
Java Applet Window	

Fig. 4-18 Manually Add Member box

This dialog box is used for adding a username to the tree list, so that a filtering profile can be defined for that user.

2. Enter the username in the text box.



G TIP: LDAP usernames should be input exactly as entered as entered for the LDAP Distinguished Name.

#### Examples:

CN=Jane Doe, CN=Users, DC=qc, DC=local CN=Public\, Joe Q., OU=Users, OU=Sales, DC=ac, DC=local CN=Doe\, John, CN=Users, DC=qc, DC=local cn=dyn-grp,ou=progrm,o=nwrd-org

Click OK to add the username to the domain's section of the tree.



**NOTE**: See Add or maintain an entity's profile under Create and Maintain Filtering Profiles in Chapter 5 for information on defining the filtering profile for the user.

## Manually add a group's name to the tree

1. Select the LDAP domain, and choose Manually Add Group from the pop-up menu to open the Manually Add Group dialog box:

Manually Add Group	×
Please enter the group name	
OK Cancel	
Java Applet Window	

Fig. 4-19 Manually Add Group box

This dialog box is used for adding a group name to the tree list, so that a filtering profile can be defined for that group.

- 2. Enter the group's name in the text box, using the entire Distinguished Name format.
- 3. Click **OK** to add the group name to the domain's section of the tree.

NOTE: See Add or maintain the entity's profile under Create and Maintain Filtering Profiles in Chapter 5 for information on defining the filtering profile for the group.

## Upload a file of filtering profiles to the tree

1. Select the LDAP domain, and choose Upload User/ Group Profile from the pop-up menu to open the Upload User/Group Profile window:

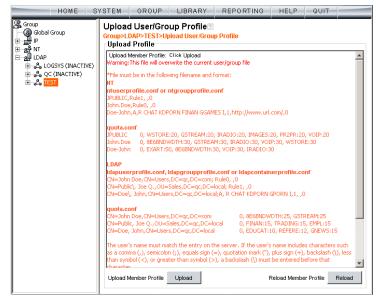


Fig. 4-20 Upload User/Group Profile window

This window is used for uploading a file to the tree with user or group names and their associated filtering profiles.

2. Click **Upload** to open the Upload Member Profile File pop-up window:

🚰 Upload Member Profile File - Microsoft Internet Explorer 📃 🔍 🗙
File Edit View Favorites Tools Help
← Back → → → ③ ② ③ ▲   ② Search 🐨 Favorites ③ Media ③ 👘 👋
Address 🙆 http://200.10.100.75:88//R3000/servlet/com.r3000.se 💌 🔗 Go 🛛 Links 🎽
Upload Member Profile File
File Browse Upload File
🙆 Upload Member Profile File 🛛 👘 👔 Internet 🏸

Fig. 4-21 Upload Member Profile File window

- 3. Click Browse to open the Choose file window.
- 4. Select the file to be uploaded.

**WARNING**: Any file uploaded to the server will overwrite the existing user/group profile file.

Each user/group profile in the file uploaded to the server *must be* set up in a specified format in order for the profile to be activated on the server. This format differs depending on whether the profiles are user or group profiles, or quota profiles. Based on the type of file format used, the file should have the following name:

- Idapuserprofile.conf if the file contains LDAP user profiles
- Idapgroupprofile.conf if the file contains LDAP group profiles
- quota.conf if the file contains LDAP user profiles or group profiles with quotas included. A quota in a profile indicates the user can spend a specified amount of time at a designated passed library category before he/she is blocked from further accessing URLs in that category.



**NOTE**: See Appendix E: User/Group File Format and Rules for examples of valid filtering profile formats to use when creating a list of profiles to be uploaded to the server.

**WARNING**: When uploading a list of profiles to the tree, the user will be blocked from Internet access if the minimum filtering level has not been defined via the Minimum Filtering Level window. If you have just established the minimum filtering level, filter settings will not be effective until the user logs off and back on the server.

- 5. Click **Upload File** to upload this file to the server. The Upload Successful pop-up window informs you to click Reload in order for these changes to be effective.
- 6. Click Reload.
- 7. Go to the LDAP branch of the tree, and choose **Refresh** from the LDAP group menu.

# CHAPTER 5: ASSIGN/SET UP GROUPS, MEMBERS

Once NT/LDAP domains are set up in the Group tree, the global administrator assigns Sub Admin group administrators the following entities (nodes) to manage: domain, group(s), members, and/or LDAP containers.

1

**NOTE**: See Set up Group Administrator Accounts in Chapter 2: Network Setup for information on creating and managing Sub Admin group administrator accounts.

# Assign Sub Admin to NT/LDAP Entity

A group administrator assigned to an NT/LDAP entity (domain, group, member, LDAP container) has the privileges to add, edit, or delete entities to/from that node to which he/she is assigned. This Sub Admin group administrator is also responsible for creating and maintaining filtering profiles for entities in his/her assignment.

- Click Assign to at any level of the NT/LDAP Group tree (domain, group, member, LDAP container) to open the Assign Access pop-up window (see Fig. 5-1). In the Assign Access to selected tree nodes frame, the name of the entity (Node Name) displays, along with that node's Assignable status. If the node has already been assigned to a group manager, the username for the Assigned User displays.
- 2. From the **Assign to user** field, choose from the list of available Sub Admins:

r
∎_ nes

Fig. 5-1 Assign Access window

3. To preview the access view for the proposed Sub Admin, click **Preview Assign** to open the Assign Access View pop-up window:

Assign to user tiones	
ystem Group Library Report Help	
Group ⊕ so nt ⊕ so nt ⊕ so nt ⊕ so nt LDAP	

Fig. 5-2 Assign Access View window

- 4. Click the Group, Library, and Help tabs to view the menu topics, sub-topics, and tree nodes currently available to that Sub Admin.
- 5. Click the "X" in the upper right corner of that pop-up window to close it.

**TIP**: If necessary, another Sub Admin from the Assign to user field can be assigned to that node.

6. Click **Apply** to assign the Sub Admin to that node and to enter that Sub Admin's username in the Assigned User column in the list box:

	Node Name	Assigna	ble	Assigne	d User
9C		$\bigcirc$		tjones	
		Unassigned Acce	:55	Assign to us	er tiones 🔳

Fig. 5-3 Assign Access window with node assigned

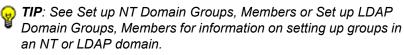
7. Click the "X" in the upper right corner of the Assign Access pop-up window to close it.

**TIP**: To unassign the Sub Admin from that node, click the **Unassigned Access** checkbox and then click **Apply**. To re-assign the node to another Sub Admin, click the **Unassigned Access** checkbox again to remove the check mark from the checkbox. A different Sub Admin can now be selected from the **Assign to user** pull-down menu.

# **Create and Maintain Filtering Profiles**

If a Sub Admin group administrator is assigned to an NT/ LDAP domain, he/she can add groups and members to that domain. A Sub Admin group administrator assigned to an NT/LDAP group can add members and filtering profiles for all entities he/she oversees.

For NT/LDAP groups, the following options are available for filtering profile creation and maintenance: Group Member Details, Profile, Exception URL, Time Profile, and Remove. For NT/LDAP members, the following options are available for filtering profile creation and maintenance: Profile, Exception URL, Time Profile, and Remove.





**NOTE**: To eliminate the redundancy of like-images in this subsection, LDAP images are used and NT images are not included.

## Add a group member to the tree list

From the domain, select the group and choose Group Member Details from the pop-up menu to display the Group/ Member Details window:

HOME S	YSTEM	GROUP	LIBRARY	REPORTING	HELP	QUIT	
HOME S Group Gobal Group Home P Home P Home S HDAP Home S HOP Home S Home	Group/M Group>LDA Group D Group Full Name Domain Domain Ty -Add Men Members	lember D P>TEST>Do etails	etails ? main Guests>G	REPORTING roup:Member Detai Domain Guests,C TEST LDAP	ils s		DC=local
4 3							Add

Fig. 5-4 Group Member Details window, LDAP group

This window is used for viewing profile information about a group, and for adding members to a group.

In the Group Details frame, the following details display: **Group** name, **Full Name** (Distinguished Name) of the group if this is an LDAP domain, **Domain** name, and **Domain Type**. Members that belong to the group display in the Members list box in the Add Member to Profile frame. To add a member to the tree list so that a profile can be created for that member:

- 1. Select the entity from the Members list box.
- 2. Click Add.

# Add or maintain an entity's profile

From the domain, select the group/member/LDAP container and choose Profile from the pop-up menu to display the default Category tab of the Profile window:

HOME S	YSTEM GROUP LIBRA	RY REPORTI	NG H	IELP	QUIT	· [	
Gu Group Gu Global Group Bu Chap Bu LDAP Bu LDAP B Bu LDAP B Bu LDAP B Bu LDAP B Bu LDAP B Bu LDAP B Bu LDAP B Bu LDAP B B B B B B B B B B B B B	Category Redirect URL   Filter Op Category Profile Group-LDAP>TEST>Domain G Group: Domain Guests Current Pr Available Filter Levels Rule0 Minimum Filtering Level Rule Details	iuests>Category Pro		Child Por Pornogra	nography aphy/Adul	t Content	vel
- Service Administration Administration - Service Administration Administration - Service Admi	Category Croups Category Groups Adult Content Category Groups Adult Content Category Groups Ca	Pass O O O O O O O O O O O O O O O O O O	Allow Allo	Warn	Block		▲ tin

Fig. 5-5 Group Profile window, Category tab, LDAP group

The Profile option is used for viewing/creating the filtering profile of the defined entity (NT group or LDAP static or dynamic group, user member, or LDAP container). Entries made in the Category, Redirect URL, and Filter Options tabs comprise the profile string for the entity.

## **Category Profile**

Category Profile is used for creating the categories portion of the filtering profile for the entity.

**NOTE**: In order to use this tab, filtering rules should already have been set up via the Rules window, accessible from the Global Group options, and the minimum filtering level should already be established. The minimum filtering level is set up in the Minimum Filtering Level window, accessible from the Global Group options. See the R3000 User Guide for more information about these windows.

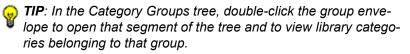
By default, "Rule0 Minimum Filtering Level" displays in the **Available Filter Levels** pull-down menu, and the Minimum Filtering Level box displays "Child Pornography" and "Pornography/Adult Content". By default, **Uncategorized Sites** are allowed to Pass.



**NOTE**: By default, the Available Filter Levels pull-down menu also includes these five rule choices: Rule1 BYPASS", "Rule2 BLOCK Porn", "Rule3 Block IM and Porn", "Rule4 8e6 CIPA Compliance", and "Block All".

To create the category portion of the entity's filtering profile:

 Select a filtering rule from the available choices in the Available Filter Levels pull-down menu. This action automatically populates the Pass, Allow, Warn, and/or Block columns in the Rule Details frame with filter settings for each category group/library category in the Category Groups tree.



**NOTE**: If a category group does not display any filter setting (i.e. the check mark does not display in any column for the category group), one or more library categories within that group has a setting in a column other than the filter setting designated for all collective library categories within that group. For example, if in the Adult Content category group some of the library categories have a block setting and other library categories have a warn setting, there would be no category group filter setting, since all library categories do not have the same filter setting.

- 2. To change the filter setting for a category group/library category, double-click the column (Pass, Allow, Warn, Block) in the row corresponding to that category group/ library category to move the check mark to that column:
  - Pass URLs in this category will pass to the end user.
  - Allow URLs in this category will be added to the end user's white list.
  - Warn URLs in this category will warn the end user that the URL he/she requested can be accessed, but may be against the organization's policies. The end user can view the URL after seeing a warning message and agreeing to its terms.
  - Block URLs in this category will be blocked.

**TIPS**: Multiple categories can be assigned the same filter setting by clicking each category while pressing the Ctrl key on your keyboard, and then double-clicking in the appropriate column.

Blocks of categories can be assigned the same filter setting by clicking the first category, and then pressing the Shift key on your keyboard while clicking the last category, and then double-clicking in the appropriate column.

- 3. Make a selection from the **Uncategorized Sites** pulldown menu to specify how to handle a URL that has not yet been categorized: "Pass", "Warn", or "Block".
- 4. To use the quota feature to restrict the end user's access to a passed library group/category, do the following:

In the Quota column, enter the number of minutes the user will be able to access the library group/category. The minimum number of minutes is "1" and the maximum is "1439" (one day minus one minute). The number of minutes entered here combines with the seconds per hit (minimum one second to maximum 3600 seconds) defined in the Quota Settings window to determine when the end user will be blocked from further access to URLs in that library group/category.

**TIP**: If a quota entry is made for a category group, all library categories in that group will show the same number of quota minutes.

**NOTE**: See the Quota Settings window in Chapter 1: System screen of the R3000 User Guide for more information on configuring quota settings and resetting quotas for end users currently blocked by quotas.

- The Overall Quota field becomes enabled if a quota is entered for any library group/category. By default, the enabled Overall Quota is turned "Off". If turned "On", enter the number of minutes in the Min field to indicate when the end user's access to passed library groups/ categories with quotas will be blocked. If the end user spends this amount of time at URLs in any quotamarked library group/category, the Overall Quota overrides the number of minutes defined for each individual quota.
- 5. Click **Apply** to apply your settings at the entity's filtering level.

# **Redirect URL**

Click the Redirect URL tab to display the Redirect URL page of the Profile window:

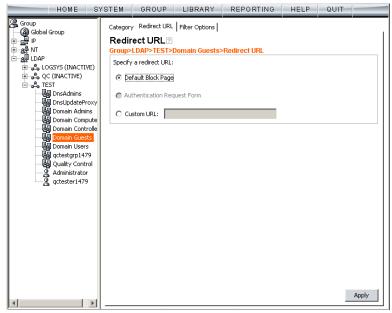


Fig. 5-6 Group Profile window, Redirect URL tab, LDAP group

Redirect URL is used for specifying the URL to be used for redirecting users who attempt to access a site or service set up to be blocked.

1. Specify the type of redirect URL to be used: "Default Block Page", or "Custom URL".

If "Custom URL" is selected, enter the redirect URL in the corresponding text box. Users will be redirected to the designated page at this URL instead of the block page.

2. Click **Apply** to apply your settings.

## **Filter Options**

Click the Filter Options tab to display the Filter Options page of the Profile window:

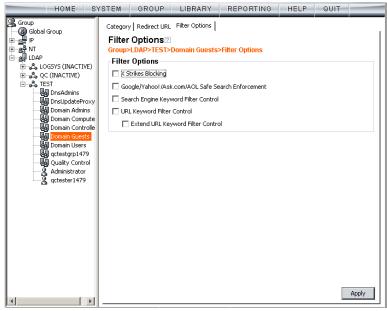


Fig. 5-7 Group Profile window, Filter Options tab, LDAP group

Filter Options is used for specifying which filter option(s) will be applied to the entity's filtering profile.

 Click the checkbox(es) corresponding to the option(s) to be applied to the filtering profile: "X Strikes Blocking", "Google/Yahoo!/Ask.com/AOL Safe Search Enforcement", "Search Engine Keyword Filter Control", "URL Keyword Filter Control", and "Extend URL Keyword Filter Control".

**NOTE**: See the R3000 User Guide for information about Filter Options.

2. Click Apply to apply your settings.

# Add an Exception URL to the profile

From the domain, select the group/member/LDAP container and choose Exception URL from the pop-up menu to display the Exception URL window:

🧏 Group					
(Gobal Group) (국가 19 국가 19 국가 10 (국가 19 국가 10 (국가 10 국가 10 (국가 10 (T) 10	Group>L -Block Block U *.yahoo	URL RLS:	main Guests>I	Exception URL	 Add Remove
Administrator	ByPass ByPass http://w				Add Remove

Fig. 5-8 Exception URL window, LDAP group

This window is used for blocking group members' access to specified URLs and/or for letting group members access specified URLs blocked at the minimum filtering level.



**NOTE**: Settings in this window work in conjunction with those made in the Minimum Filtering Level window maintained by the global administrator. See the R3000 User Guide for information on configuring and using the Minimum Filtering Level.

## **URL entries**

The following types of URL entries are accepted in this window:

- formats such as: http://www.coors.com, www.coors.com, or coors.com
- IP address e.g. "209.247.228.221" in http:// 209.247.228.221
- octal format e.g. http\://0106.0125.0226.0322
- hexadecimal short format e.g. http\://0x465596d2
- hexadecimal long format e.g. http:// 0x46.0x55.0x96.0xd2
- decimal value format e.g. http://1180014290
- escaped hexadecimal format e.g. http:// %57%57%57.%41%44%44%49%43%54%49%4E%47 %47%41%4D%45%53.%43%4F%4D
- wildcard entry format that uses an asterisk (\*) followed by a period (.) and then the URL, such as: \*.coors.com

**TIP**: The minimum number of levels that can be entered for a wildcard entry is three (e.g. \*.yahoo.com) and the maximum number of levels is six (e.g. \*.mail.attachments.message.yahoo .com).

## **Block URL frame**

To block the entity's access to a URL:

- 1. In the **Block URL** field, enter the URL.
- 2. Click Add to include the URL in the Block URLs list box.

To allow the URL to be accessed by the entity again:

- 1. Select the URL from the Block URLs list box.
- 2. Click Remove.

## **ByPass URL frame**

To allow a URL that is blocked at the minimum filtering level to be accessed by the entity:

- 1. In the ByPass URL field, enter the URL.
- 2. Click **Add** to include the URL in the ByPass URLs list box.

To block the entity's access to the URL again:

- 1. Select the URL from the ByPass URLs list box.
- 2. Click Remove.

## Apply settings

Click **Apply** to apply your settings after adding or removing a URL.

# Create a Time Profile for the entity

From the domain, select the group/member/LDAP container and choose Time Profile from the pop-up menu to display the Time Profile window:

HOME S	YSTEM GRO	UP LIBRARY	REPORTING	HELP	QUIT	
않 Group - ③ Global Group - 글로 IP 표- 괊 NT	Time Profile Group>LDAP>TE Current Time	EST>Domain Guests>	Time Profile	•		
E SAP E SAP E SAS LOGSYS (INACTIVE)	Name Tech time profile	Daily: Every 1 davís	; Duration: 03:30 PM 20		cription 30 PM 2008	05/01
	tech2timeprofile		Duration: 11:15 AM 20			
1						

Fig. 5-9 Time Profile window, LDAP group

This window is used for setting up or modifying a filtering profile to be activated at a specified time.

The Current Time Profiles list box displays the Name and Description of any time profiles previously set up for the entity that are currently active.

#### Add a Time Profile

To create a time profile:

1. Click Add to open the Adding Time Profile pop-up box:



Fig. 5-10 Adding Time Profile

- 2. Type in three to 20 alphanumeric characters—the underscore ( \_ ) character can be used—for the profile name.
- 3. Click **OK** to close the pop-up box and to open the Adding Time Profile pop-up window that displays the name of this profile at the top of the Time Profile frame:

ding Time Profile	2
ime Profile: tech5timeprofile	
Recurrence Rule Redirect Filter Options Exception	
Recurrence duration time	
Start: 11:15 AM 💌 05/06/08 💌	End: 12:15 V PM V 05/06/08 V
Recurrence pattern	
Daily Every 1 day(s)	
C Weekly	
C Monthly	
C Yearly	
Range of recurrence	
Start: 05/06/08	No end date
·	C End by: 05/06/08
	Apply Close
	Appiy Close
va Applet Window	

Fig. 5-11 Time Profile window Recurrence tab

4. In the Recurrence duration time frame, specify **Start** and **End** time range criteria:

- a. Select from a list of time slots incremented by 15 minutes: "12:00" to "11:45". By default, the Start field displays the closest 15-minute future time, and the End field displays a time that is one hour ahead of that time. For example, if the time is currently 11:12, "11:15" displays in the Start field, and "12:15" displays in the End field.
- b. Indicate whether this time slot is "AM" or "PM".
- c. Today's date displays using the MM/DD/YY format. To choose another date, click the arrow in the date drop-down menu to open the calendar pop-up box:



In this pop-up box you can do the following:

- Click the left or right arrow at the top of this box to navigate to the prior month or the next month.
- Double-click a date to select it and to close this box, populating the date field with that date.
- Click **Today** to close this box, populating the date field with today's date.
- 5. In the Recurrence pattern frame, choose the frequency this time profile will be used:
  - **Daily** If this selection is made, enter the interval for the number of days this time profile will be used. By default, "1" displays, indicating this profile will be used each day during the specified time period.

If **5** is entered, this profile will be used every five days at the specified time.

 Weekly - If this selection is made, enter the interval for the weeks this time profile will be used, and specify the day(s) of the week ("Sunday" - "Saturday"). By default, "1" displays and today's day of the week is selected. If today is Tuesday, these settings indicate this profile will be used each Tuesday during the specified time period.

If **2** is entered and "Wednesday" and "Friday" are selected, this profile will be used every two weeks on Wednesday and Friday.

- **Monthly** If this selection is made, first enter the interval for the months this time profile will be used, and next specify which day of the month:
  - If Day is chosen, select from "1" "31".
  - If a non-specific day is chosen, make selections from the two pull-down menus for the following:
    - week of the month: "First" "Fourth", or "Last"
    - day of the month: "Sunday" "Saturday", "Day", "Weekday", "Weekend".

"By default, "1" displays and today's Day of the month is selected. If today is the 6th, these settings indicate this profile will be used on the 6th each month during the specified time period.

If **3** is entered and the "Third" "Weekday" are selected, this profile will be used every three months on the third week day of the month. If the month begins on a Thursday (for example, May 1st), the third week day would be the following Monday (May 5th in this example).

• **Yearly** - If this selection is made, the year(s), month, and day for this time profile's interval must be specified:

First enter the year(s) for the interval. By default "1" displays, indicating this time profile will be used each year.

Next, choose from one of two options to specify the day of the month for the interval:

- The first option lets you choose a specific month ("January" "December") and day ("1" "31"). By default the current month and day are selected.
- The second option lets you make selections from the three pull-down menus for the following:
  - week of the month: "First" "Fourth", or "Last"

- day of the month: "Sunday" - "Saturday", "Day", "Weekday", "Weekend"

- month: "January" - "December".

By default, the "First" "Sunday" of "January" are selected.

If **2** is entered and the "First" "Monday" of "June" are selected, this profile will be used every two years on the first Monday in June. For example, if the current month and year are May 2008, the first Monday in June this year would be the 2nd. The next time this profile would be used will be in June 2010.

- 6. In the Range of recurrence frame, the **Start** date displays greyed-out; this is the same date as the Start date shown in the Recurrence duration time frame. Specify whether or not the time profile will be effective up to a given date:
  - No end date If this selection is made, the time profile will be effective indefinitely.
- Click each of the tabs (Rule, Redirect, Filter Options, Exception) and specify criteria to complete the time profile. (See Category Profile, Redirect URL, Filter Options, and Exception URL in this sub-section for information on the Rule, Redirect, Filter Options, and Exception tabs.)

- 8. Click **Apply** to activate the time profile for the IP group at the specified time.
- 9. Click **Close** to close the Adding Time Profile pop-up window and to return to the Time Profile window. In this window, the Current Time Profiles list box now shows the Name and Description of the time profile that was just added.

WARNING: If there is an error in a time profile, the Description for that time profile displays in red text. Select that time profile and click View/Modify to make any necessary corrections.

# Remove an entity's profile from the tree

To remove a group, container, or user member's profile from the tree, select the profile in order to open the pop-up menu, and choose Remove.

# CHAPTER 6: AUTHENTICATION DEPLOYMENT

This final step of the authentication setup process includes testing authentication settings and activating authentication on the network.

# **Test Authentication Settings**

Before deploying authentication on the network, you should test your settings to be sure the Authentication Request Form login page can be accessed. If properly set up, the Authentication Request Form opens on a user's workstation if the user has been blocked from accessing specified Internet content. This form allows the user to authenticate him/herself in order to access Web content permitted by his/ her filtering profile.

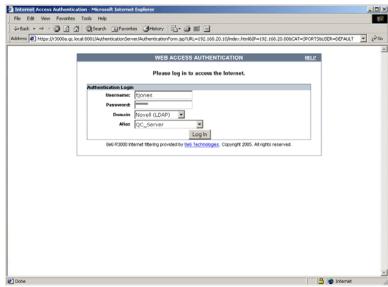


Fig. 6-1 Authentication Request Form

٢

**NOTE**: In order to complete the test process, you should be sure you have your own filtering profile set up.

To verify that authentication is working, do either of the following, based on the Tier you selected:

 If Tier 2 or Tier 3 Web-based authentication will be used: Go to the Test Web-based authentication settings sub-section for instructions on testing the Authentication Request Form login page from a single workstation. For this test, you will create an IP profile for the test machine's IP address, and set the Redirect URL for the profile to access the Authentication Request Form.

**NOTE**: Before testing Web-based authentication settings, be sure the SSL certificate you created via the System > Authentication > Authentication SSL Certificate window (in Chapter 2) is placed on all workstations of users who will be authenticated. This ensures that users will not receive the Security Alert warning message from the server.

• If Tier 1 net use based authentication will be used: Go to the Test net use authentication settings sub-section for instructions on testing the net use based login command to see if you can access the assigned profile.

If you (the administrator) can be successfully authenticated in the domains that were set up, the test process is complete, and you are ready to activate authentication on the network (see Activate Authentication on the Network).



**NOTE**: The Usage Graphs window can be used for viewing and analyzing the number of end users who have been authenticated, and their usage of the Internet. See Usage Graphs from the Reporting screen section of the R3000 User Guide for more information about this reporting tool.

## Test Web-based authentication settings

To verify that authentication is working properly, make the following settings in the Group section of the console:

#### Step 1: Create an IP Group, "test"

- 1. Click the IP branch of the tree.
- 2. Select Add Group from the pop-up menu to open the Create New Group dialog box:

Create New Group					
Group Name	test				
Password	*****				
Confirm Password	****				
ок	Cancel				
Java Applet Window					

Fig. 6-2 Create New Group box

- 3. Enter *test* as the Group Name.
- 4. Enter the password in the **Password** and **Confirm Password** fields.
- 5. Click **OK** to add the group to the tree.

### Step 2: Create a Sub-Group, "workstation"

- 1. Select the IP Group from the tree.
- 2. Click Add Sub Group in the pop-up menu to open the Create Sub Group dialog box:

🚖 Create Sub Group	×
Group Name workstation	
OK Cancel	
Java Applet Window	

Fig. 6-3 Create Sub Group box

- 3. Enter *workstation* as the Group Name.
- 4. Click **OK** to add the Sub-Group to the IP Group.

### Step 3: Set up "test" with a 32-bit net mask

- 1. Select the IP Group named "test" from the tree.
- 2. Click Members in the pop-up menu to display the Members window:

HOME	SYSTEM GROUP LIBRARY REPORTING HELP QUIT
Gorup - Gold Group - For P - For P	Members:         Group:IP>test>Members         Add members by IP SubGroup         IP/MAC Members         When using IP addresses to identify groups on the network, the IP address and netmask or IP range for the designated member IPs address and netmask or Start and IP end, and then clicking Add. Use the Calculator to calculate IP ranges without overlaps. A member MAC is added in this frame by entering the MAC address, and then clicking Add. Once a member is added, a sub-group can be created and defined.         Current Members         190.160.20.80/32         Source IP Start         End         Source IP Start         End         Source MAC

Fig. 6-4 Group Members window

- 3. Click the radio button corresponding to "Source IP".
- 4. Enter the **Source IP** address of the workstation, and select *255.255.255.255* as the subnet mask.
- Click Add to include the IP address in the Current Members list box.

#### Step 4: Give "workstation" a 32-bit net mask

- 1. Select the IP Sub-Group "workstation" from the tree.
- 2. Click Members in the pop-up menu to display the Members window:

HOME S	YSTEM GROUP LIBRARY REPORTING HELP QUIT
Group Gobal Group Gobal Group Gobal Group Gobal Group Gobal Group Gobal Group Gobal Group Gobal Group Here admin Here admin He	Members         Group>IP>test>workstation>Members         Add members by       P       © SubGroup         Modify Sub Group Member       To add or modify a member IP, enter the IP address and netmask or IP range in the Member fields. Use the Calculator to calculate IP ranges without any overlaps. To add member MAC(s), highlight the MAC address(es) from the "Available MAC(s') list and cick the left arrow. To remove member MAC(s), highlight the MAC address(es) and click the right arrow. To save changes, click Modify.         IP Address       @ Member IP       190.160.20.80       / 255.255.255       Calculator         C       Member IP       190.160.20.80       / 255.255.255       Calculator         MAC Address

Fig. 6-5 Sub Group Members window

- 3. Click the radio button corresponding to "Member IP".
- 4. In the **Member IP** fields, enter the IP address of the workstation, and select 255.255.255.255 as the subnet mask.
- 5. Click Modify.

## Step 5: Block everything for the Sub-Group

- 1. Select the IP Sub-Group "workstation" from the tree.
- 2. Click Sub Group Profile in the pop-up menu to display the Sub Group Profile window:

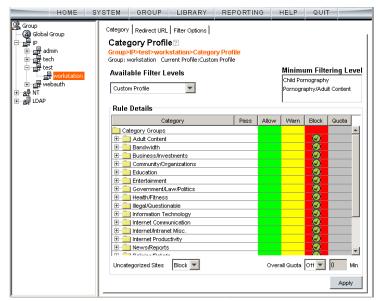


Fig. 6-6 Sub Group Profile window, Category tab

3. In the Category Profile page, select "Block All" from the **Available Filter Levels** pull-down menu.

**TIP**: Blocks of category groups can be moved by clicking the first category group, and then pressing the Shift key on your keyboard while clicking the last category group, and then clicking in the Block column.

- 4. For Uncategorized Sites, select "Block".
- 5. Click Apply.

# Step 6: Use Authentication Request Page for redirect URL

1. Click the Redirect URL tab to display the Redirect URL page:

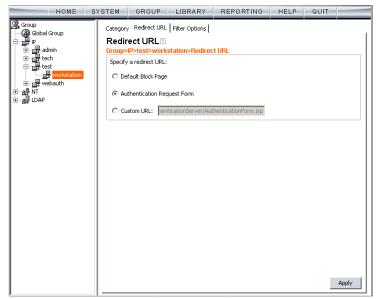


Fig. 6-7 Sub Group Profile window, Redirect URL tab

2. Select "Authentication Request Form".

**NOTE**: The host name of the R3000 will be used in the redirect URL of the Authentication Request Form, not the IP address. Be sure a forward/reverse DNS entry for the R3000 is made on the DNS server.

3. Click Apply.

## Step 7: Disable filter options

1. Click the Filter Options tab to display the Filter options page:

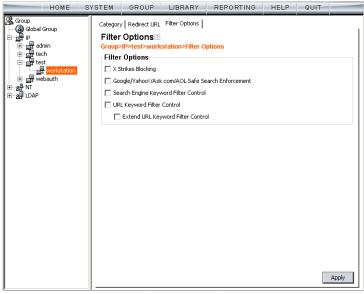


Fig. 6-8 Sub Group Profile window, Filter Options tab

- Uncheck all the checkboxes: "X Strikes Blocking", "Google/Yahoo!/Ask.com/AOL Safe Search Enforcement", "Search Engine Keyword Filter Control", "URL Keyword Filter Control", and "Extend URL Keyword Filter Control".
- 3. Click Apply.

### Step 8: Attempt to access Web content



**NOTE**: For this step, you must have your own profile set up in order to complete the test process.

1. Launch Internet Explorer:



Fig. 6-9 Internet Explorer browser

2. Enter a URL in the Address field of the browser window.



**NOTE**: The URL should be one that begins with "http"—**not** "https".

3. After clicking **Go**, the Authentication Request Form should open:

Toternet Access Authentication - Microsoft Internet	t Explorer	-1012
File Edit View Favorites Tools Help		-
⇔Back • → - 🙆 🔄 付 @Search 🔒 Favorit	es 🎯History 🖏 🖬 🖬	
Address Address Address //r3000a.gc.local:8081/AuthenticationServ	er/AuthenticationForm.jsp?URL=192.168.20.10/index.html&IP=192.168.20.808/CAT=SPORTS&USER=DEFAULT	• 🖓 😡
	WEB ACCESS AUTHENTICATION HELP	
	Please log in to access the Internet.	
Authentication Login		
Username:	tiones	
Password:	Annual Contraction of	
Domain	Novell (LDAP)	
Alias	QC_Server	
	Login	
8e6 R3000 Int	ernet filtering provided by <u>De6 Technologies</u> . Copyright 2005. All rights reserved.	
Done	🕒 🍘 Internet	2

Fig. 6-10 Authentication Request Form

- 4. Enter the following information:
  - Username
  - Password

If the Domain and Alias fields display, select the following information:

- · Domain you are using
- Alias name for that domain (unless "Disabled" displays and the field is greyed-out)
- 5. Click **Log In** to authenticate or re-authenticate yourself on the network.

The test process has been completed successfully if you are now able to access the content for the URL you entered at step 2 in this section.

## Test net use based authentication settings

1. From the test workstation, go to the NET USE command line and enter the NET USE command using the following format: **NET USE \\virtualip\R3000\$** 

For example: NET USE \\192.168.0.20\R3000\$

The entry you make should initiate a connection with Tier 1.

**TIP**: The virtual IP address should be the same as the one entered in the Virtual IP Address to Use for Authentication field in the Authentication Settings window (see Chapter 2: Network Setup, Enter network settings for authentication).

2. Make a Web request to a site you can access, based on your filtering profile.

The test process has been completed successfully if you are now able to access the content for the URL you entered at step 2 in this section.

# **Activate Authentication on the Network**

After successfully testing authentication settings, you are now ready to activate authentication on the network.

To verify that authentication is ready to be activated on the network, do either of the following, based on the Tier you selected:

 If Tier 2 or Tier 3 Web-based authentication will be used: There are two options for Web-based authentication: IP Group authentication, and Global Group Profile authentication. Select the option you wish to use on your network. Go to the Activate Web-based authentication for an IP Group sub-section for instructions on setting up an IP Group profile for authentication. Go to the Activate Web-based authentication for the Global Group subsection for instructions on setting up the Global Group Profile for authentication.



**NOTE**: An accelerator card is recommended if using Web-based authentication.

• If Tier 1 net use based authentication will be used: Go to the Activate net use based authentication sub-section for instructions on testing the login script and modifying the Global Group Profile for authenticating users.

# Activate Web-based authentication for an IP Group

IP Group authentication is the preferred selection for Webbased authentication—over the Global Group Profile authentication option—as it decreases the load on the R3000.

## Step 1: Create a new IP Group, "webauth"

- 1. Click the IP branch of the tree.
- 2. Select Add Group from the pop-up menu to open the Create New Group dialog box:

Create New Group		
Group Name	webauth	
Password	****	
Confirm Password	****	
ок	Cancel	
Java Applet Window		

Fig. 6-11 Create New Group box

- 3. Enter *webauth* as the Group Name.
- 4. Enter the password in the **Password** and **Confirm Password** fields.
- 5. Click **OK** to add the group to the tree.

#### Step 2: Set "webauth" to cover users in range

- 1. Select the IP group "webauth" from the tree.
- 2. Click Members in the pop-up menu to display the Members window:

HOME S	YSTEM GROUP LIBRARY REPORTING HELP QUIT
Group     Gobal Group     Gobal Group     Ge	Members         Group>IP>webauth>Members         Add members by       IP       SubGroup         IP/MAC Members         When using IP addresses to identify groups on the network, the IP address and netmask or IP range for the designated member must first be entered in the Range to Detect global group window. A member IP is added in this frame by entering the IP address and netmask or IP start and IP end, and then clicking Add. Use the Calculator to calculate IP ranges without overlaps. A member MAC is added in this frame by entering the IMAC address, and then clicking Add. Once a member is added, a sub-group can be created and defined.         Current Members       ID 10 20 5/24         ID 10 20 5/24       Remove         New Members       Calculator         Source IP       I       Calculator         Source IP       End       Calculator         Source IP Start       End       Calculator

Fig. 6-12 Members window

- 3. Click the radio button corresponding to "Source IP".
- 4. Enter the **Source IP** address of the workstation and specify the subnet mask for the range of user IP addresses of users to be authenticated.
- 5. Click **Add** to include the IP address range in the Current Members list box.

#### Step 3: Create an IP Sub-Group

- 1. Select the IP Group "webauth" from the tree.
- 2. Click Add Sub Group in the pop-up menu to open the Create Sub Group dialog box:

🛓 Create Sub Group	×
Group Name testsub	
OK Cancel	
Java Applet Window	

Fig. 6-13 Create Sub Group box

- 3. Enter the Group Name of your choice.
- 4. Click **OK** to add the Sub-Group to the IP Group.
- 5. Select the IP Sub-Group from the tree.
- 6. Click Members in the pop-up menu to display the Members window:

HOME S	STEM GROUP	LIBRARY	REPORTING	HELP	QUIT
Group Godobal Group	Members Group>IP>webauth>te Add members by To add or modify a member the Calculator to calculate address(s) from the "Av- highlight the MAC address IP Address © Member IP MAC Address	P Subo Member r IP, enter the IP IP ranges without aliable MAC(s)" list (es) and click the i 10.10.20.5	Group address and netmask ( t any overlaps. To add and click the left arrow	I member MAC	(s), highlight the MAC member MAC(s),

Fig. 6-14 Sub Group Members window

- 7. Click the radio button corresponding to "Member IP".
- In the Member IP fields, enter the IP address range for members of the Sub-Group, and specify the subnet mask.
- 9. Click Modify.

#### Step 4: Block everything for the Sub-Group

- 1. Select the IP Sub-Group from the tree.
- 2. Click Sub Group Profile in the pop-up menu to display the Sub Group Profile window:

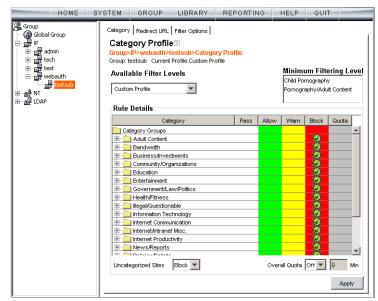


Fig. 6-15 Sub Group Profile window, Category tab

3. In the Category Profile page, select "Block All" from the **Available Filter Levels** pull-down menu.

**TIP**: Blocks of category groups can be moved by clicking the first category group, and then pressing the Shift key on your keyboard while clicking the last category group, and then clicking in the Block column.

- 4. For Uncategorized Sites, select "Block".
- 5. Click Apply.

# Step 5: Use Authentication Request Page for redirect URL

1. Click the Redirect URL tab to display the Redirect URL page:

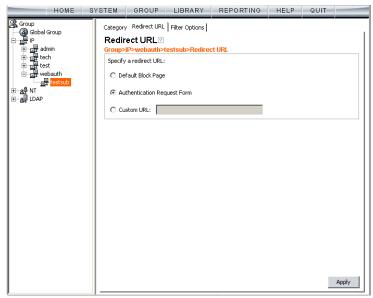


Fig. 6-16 Sub Group Profile window, Redirect URL tab

2. Select "Authentication Request Form".

**NOTE**: Since the Authentication Request Form radio button selection uses the host name of the server—not the IP address— be sure there is a DNS resolution for the host name.

#### 3. Click Apply.

As a result of these entries, Web-based authentication takes effect immediately, and any user in this Sub-Group will be sent to the Authentication Request Form if he/she attempts to access content on the Internet. After filling out this form and being authenticated, the user will be able to access Internet content based on his/her filtering profile.

#### Step 6: Disable filter options

1. Click the Filter Options tab to display the Filter options page:

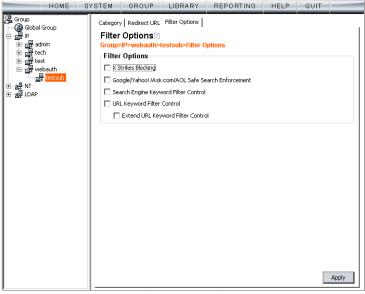


Fig. 6-17 Sub Group Profile window, Filter Options tab

- Uncheck all the checkboxes: "X Strikes Blocking", "Google/Yahoo!/Ask.com/AOL Safe Search Enforcement", "Search Engine Keyword Filter Control", "URL Keyword Filter Control", and "Extend URL Keyword Filter Control".
- 3. Click Apply.

## Step 7: Set Global Group to filter unknown traffic

- 1. Click Global Group in the tree to open the pop-up menu.
- 2. Select Global Group Profile to display the Category tab of the Profile window:



Fig. 6-18 Global Group Profile window, Category tab

- a. In the Category Profile page, select categories to block, pass, white list, or assign a warn setting, and indicate whether uncategorized sites should pass, trigger a warn message for the end user, or be blocked.
- b. Click Apply.
- 3. Click the Port tab to display the Port page:

	YSTEM GROUP	LIBRARY	REPORTING	HELP	QUIT	
S Group Good Group S A NT S ANT S ANT B ANT	Category Port Default Port Group>Global Group> Block Port(s) 60 Port Port	Port	iter Options			
					_	Apply

Fig. 6-19 Global Group Profile window, Port tab

- a. In the Port page, enter the **Port** number to be blocked.
- b. Click **Add** to include the port number in the Block Port(s) list box.
- c. After entering all port numbers to be blocked, click **Apply**.

4. Click the Default Redirect URL tab to display the Default Redirect URL page:

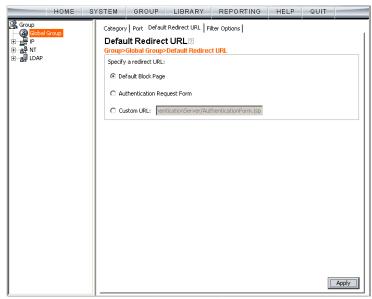


Fig. 6-20 Global Group Profile window, Default Redirect URL tab

- a. Select "Default Block Page".
- b. Click Apply.

5. Click the Filter Options tab to display the Filter Options page:

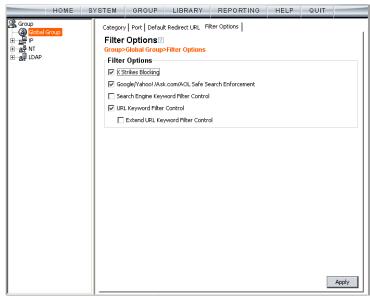


Fig. 6-21 Global Group Profile window, Filter Options tab

- a. Select filter options to be enabled.
- b. Click Apply.

As a result of these entries, the standard block page will display—instead of the Authentication Request Form— when any user in this Sub-Group is blocked from accessing Internet content.

🚰 8e6 R3000 - Microsoft Internet Explorer	
<u>File Edit Yiew Favorites Tools H</u> elp	1 <u>8</u>
🛛 🖙 Back 🔹 🔿 🔹 😰 🚮 🛛 🐼 Search 🛛 🙀 Favorite	es 🎯 History 🛛 🔂 + 🎒 🐨 🕶
Address 🛃 w.coors.com/&IP=200.10.100.75:81&CAT=ALCO	D&USER=LOGO\Domain%20Admins\GLANG ▼ 🔗 Go 🛛 Links ≫
ACCESS	DENIED! HELP
Internet access to the requested website h and organization's In	as been denied based on your user profile nternet Usage Policy.
User/Machine: LOGO'Domain Admins\GLANG	
IP: 200.10.101.140	
Category: Alcohol	
Blocked URL: http://www.coors.com/	
For further optic	ons, <u>click here</u> .
To submit this blocked site for review, <u>click he</u>	
8e6 R3000 Internet filtering provided by 8e6 Tec	chnologies. Copyright 2003. All rights reserved.
	•

Fig. 6-22 Default Block Page

# Activate Web-based authentication for the Global Group

This selection of Web-based authentication creates more of a load on the R3000 than the IP Group selection, and should only be used as an alternative to IP Group authentication.

#### Step 1: Exclude filtering critical equipment

This step involves the identification of equipment—such as backup servers—you wish to be excluded from being served the Authentication Request Form page.

For this step, you must choose one of two options:

- Block Web access only Select this option if you do not want to log traffic for a machine that you set up to be excluded from filtering on the network. Using this option, you exclude the IP address of a machine via the Range to Detect window. If you select this option, go to Step 1A.
- Block Web access and log traffic Select this option if you wish to log traffic for a machine that you set up to be excluded from filtering on the network. Using this option, you create an IP profile for the machine via the Sub Group Profile window. If you select this option, go to Step 1B.

## Step 1A: Block Web access, logging via Range to Detect

**NOTE**: Segments of network traffic should not be defined if using the firewall mode.

#### **Range to Detect Settings**

- 1. Click Global Group in the tree to open the pop-up menu.
- 2. Select Range to Detect to display the Range to Detect Settings window:

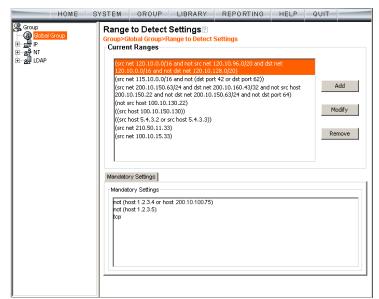


Fig. 6-23 Range to Detect Settings window, main window

3. In the Current Ranges frame, click **Add** to go to the next Settings page:

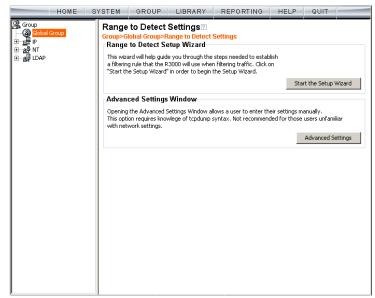


Fig. 6-24 Range to Detect Settings window, main window

4. Click **Start the Setup Wizard** to display Step 1 of the Range to Detect Setup Wizard:

#### **Range to Detect Setup Wizard**

	ME SYSTEM	GROUP	LIBRARY	REPORTING	HELP	QUIT	
Global Group ⊕ ⊕ ₽ ₽ ₩ ₽ ₩ ₩ ₽	Group>		Setup Wiza Range to Detect s to Detect				
स्तेब्रुझे NT सिब्रुझि LDAP	you t whe	hrough the step n filtering traffic. ded as entries	os needed to est . Note that any er	tect Setup Wizard. T tablish a filtering rule ntries entered here w stination IPs that sho	that the R3 /ill automati	000 will use cally be	
	Use	the text fields b	elow in order to	enter the Source IP(s	s) that the R	3000 should	-
		ce IP					
	10.10	).10.0/24				Modify	
						Remove	
	IP / Ne	etmask	1	- Add			
					culator		
	Individ	ual IP		Add			
					Ne	ext	Cancel

Fig. 6-25 Range to Detect Setup Wizard, Step 1

- 1. Enter the **IP** address and specify the **Netmask**, or enter the **Individual IP** address of the source IP address(es) to be filtered.
- 2. Click Next to go to Step 2 of the Wizard:

HOME	SYSTEM GRO	UP LIBRARY	REPORTING	HELP	QUIT	
Group (Global Group) 문···로북 IP 문···로북 NT	Group>Global Gro	tect Setup Wiza pup>Range to Detect nation IPs to Includ	Setup Wizard			
⊞ <u>a</u> Budap	should filter. E Example Ing	elds below in order to inter your proxy IP(s) h out:		n IP(s) that th	ie R3000	<u> </u>
	5.5.5.5/30 5.5.5.16/28 5.5.5.90	_				<b>•</b>
	Destination I				Modify	
	IP / Netmask	1	Add		Remove	
	Individual IP		Cal	culator		
			B	ack Ne	ext	Cancel

Fig. 6-26 Range to Detect Setup Wizard, Step 2

- An entry for this step of the Wizard is optional. If there are destination IP address(es) to be filtered, enter the IP address and specify the Netmask, or enter the Individual IP address.
- 4. Click Next to go to Step 3 of the Wizard:

HOME	SYSTEM GROUP LIBRARY REPORTING HELP QUIT
Group Global Group ⊕ ⊕ P P	Range to Detect Setup Wizard Group>Global Group>Range to Detect Setup Wizard Step 3 - Source IPs to Exclude from Detection
E a LDAP	Use the text fields below in order to enter the Source IP(s) that the R3000 should exclude from filtering.
	Example Input 5.5.5.5/30 5.5.5.18/28 5.5.5.90
	Source IP [10.10.10.34
	10.10.10.34 Modify
	Remove
	IP / Netmask / Add Calculator
	Individual IP Add
	Back Next Cancel

Fig. 6-27 Range to Detect Setup Wizard, Step 3

- An entry for this step of the Wizard is optional. If there are source IP address(es) to be ignored, enter the IP address and specify the Netmask, or enter the Individual IP address.
- 6. Click Next to go to Step 4 of the Wizard:

HOME	SYSTEM	GROUP	LIBRARY	REPORTING	HELP	QUIT	
୍ଥ୍ୟ Group ାତ୍ତି Global Group ਦਾ⊑ ାP ਦਾ ଇହୁ NT	Group>G Step 4	obal Group>R - Destination		Setup Wizard de from Detection			
i⊞gi LDAP	should autom Exal		filtering. Note th	enter the Destinatior nat any entries adde			
	5.5.	5.16/28					•
		10.0/24				Modify	
						Remove	
	IP / Netr	nask	/ 255.25	5.255.0 <u> Add</u> Cal	t culator		
	Individu	al IP		Add	_		
				B	ack Ne	ext	Cancel

Fig. 6-28 Range to Detect Setup Wizard, Step 4

- An entry for this step of the Wizard is optional. If there are destination IP address(es) to be ignored, enter the IP address and specify the Netmask, or enter the Individual IP address.
- 8. Click Next to go to Step 5 of the Wizard:

	HOME	SYSTEM	GROUP	LIBRARY	REPORTING	HELP	QUIT	
Group Global ⊞ B IP IP IP IP	Group	Group>G	obal Group>R	Setup Wiza lange to Detect n Ports to Excl		on	•	
E Se NT		should	d exclude from mple Input:		enter the Destination	Port(s) tha	t the R3000	
		- Destin	ation Port				Remove	
		Individu	al Port	Add				
					Ba	ack Ne	ext	Cancel

Fig. 6-29 Range to Detect Setup Wizard, Step 5

- 9. An entry for this step of the Wizard is optional. If there are ports to be excluded from filtering, enter each port number in the **Individual Port** field, and click **Add**.
- 10. Click **Next** to go to the final step of the Wizard:

HOME	SYSTEM	GROUP	LIBRARY	REPORTING	HELP	QUIT			
公 Group (② <mark>Global Group</mark> 문· 문·		al Group>R	Setup Wiza ange to Detect			•			
timest NI timest LDAP	Below is a recap of the entered information. Review for accuracy and click the "Finish" button to accept the entered information.								
	-Source			Exclude IP					
	10.10.10		Modif	the second		Modif	У		
	Destination IP Include IP Exclude IP								
	10.10.10	).43/32	Modif	y 10.10.10.0/24	1	Modif	У		
	Destinat Exclude Po		IP / Netmas	ask Calculator	5.255.255.0	•			
					Calculator	]			
				Ba	ck Fini	ish	Cancel		

Fig. 6-30 Range to Detect Setup Wizard, Step 6

11. After review the contents in all list boxes, click **Finish** to accept all your entries.

As a result of these entries, the IP address(es) specified to be excluded will not be logged or filtered on the network.

Bypass Step 1B and go on to Step 2 to complete this process.

## Step 1B: Block Web access via IP Sub-Group profile

**NOTE**: This step assumes that the IP Group and Sub-Group have already been created.

- 1. Select the IP Sub-Group from the tree.
- 2. Click Sub Group Profile in the pop-up menu to display the Sub Group Profile window:

HOME	SYSTEM	GROUP	LIBRARY	REF	ORTIN	1G	HELP	QUI	r (	_
Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group Group G	Category Catego Catego Group>IP: Group: bku Availabl	Redirect URL Ty Profile >tech>bkup pserver Curr e Filter Le mum Filtering etails	Filter Options   •2 •server>Catego rent Profile:Minimu vels Level	ry Prof	ile ng Level		Minim Child Por Pornogra	um Filte mography aphy/Adu	ering Le	vel
		Cat ory Groups duit Contert andwidth usiness/inves ducation memulty/Org ducation ducation ducation ducation ducation ducation ducation gal/Question formation Tec ternet Produce wws/Reports	anizations wv/Politics able hnology unication t Misc.			Over	Warn		Quota	▲ ▼ √

Fig. 6-31 Sub Group Profile window, Category tab

- 3. In the Category Profile page, create a custom profile by selecting categories to block, pass, white list, or assign a warn setting, and indicating whether uncategorized sites should pass, trigger a warn message for the end user, or be blocked.
- 4. Click Apply.
- Click the Redirect URL tab to display the Redirect URL page:

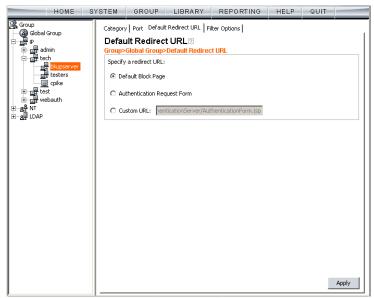


Fig. 6-32 Sub Group Profile window, Redirect URL tab

6. Select "Default Block Page", and then click Apply.

7. Click the Filter Options tab to display the Filter Options page:

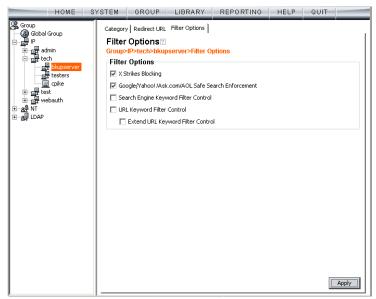


Fig. 6-33 Sub Group Profile window, Filter Options tab

8. Select filter options to be enabled, and click Apply.

As a result of these entries, the machine will not be served the Authentication Request Form, and will use the default block page instead.

Go on to Step 2 to complete this process.

#### Step 2: Modify the Global Group Profile

- 1. Click Global Group in the tree to open the pop-up menu.
- 2. Select Global Group Profile to display the Category tab of the Profile window:

HOME S	YSTEM GROUP LIBRARY REF	PORTIN	16	HELP	QUI	г
않, Group - @ Gobal Group 한 말로 P 한 말로 P 한 요즘 NT 한 공문 LDAP	Category   Port   Default Redirect URL   Filter Opt Category Profile Group-Global Group-Category Profile Group-Global Group-Category Profile Group: Global Group-Category Profile Custom Profile Custom Profile Rule Details				•	
	Category	Pass	Allow	Warn	Block	Quota
	Category Groups					-
	E- Content					
	🗄 💼 Bandwidth					
	😟 🧰 Business/Investments					
	🕒 🧰 Community/Organizations					
	🗄 🧰 Education					
	🗄 💼 Entertainment					
	E Government/Law/Politics					
	🗄 💼 Health/Fitness					
	🗄 🚞 Illegal/Questionable					
	🕀 🚞 Information Technology					
	Internet Communication				Q	
	Internet/Intranet Misc.					
	Internet Productivity					
	News/Reports				Q	
	Uncategorized Sites Block		Over	all Quota	Off 💌	0 Min
						Apply

Fig. 6-34 Global Group Profile window, Category tab

- a. Block all categories and specify that uncategorized sites should be blocked.
- b. Click Apply.

	HOME SY	STEM	GROUP	LIBRARY	REPORTING	HELP	QUIT	
(史) Group 中國 Robert 史 왕 NT 日 왕 LDAP	oup	Port 2	ilobal Group ort(s)	1	ilter Options			
								Apply

3. Click the Port tab to display the Port page:

Fig. 6-35 Global Group Profile window, Port tab

- a. Enter the **Port** number to be blocked, and then click **Add** to include the port number in the Block Port(s) list box.
- b. After entering all port numbers to be blocked, click **Apply**.

4. Click the Default Redirect URL tab to display the Default Redirect URL page:

HOME	SYSTEM	GROUP	LIBRARY	REPORTING	HELP	QUIT	
Goop ⊢ Good Group ⊕ Good Group ⊕ SA NT ⊕ SA NT ⊕ SA LDAP	Defau Group> Specify C Del	It Redirect	Default Redirec	•			
							pply

Fig. 6-36 Global Group Profile window, Redirect URL tab

a. Select "Authentication Request Form".

**NOTE**: Since the Authentication Request Form radio button selection uses the host name of the server—not the IP address— be sure there is a DNS resolution for the host name.

b. Click Apply.

5. Click the Filter Options tab to display the Filter Options page:

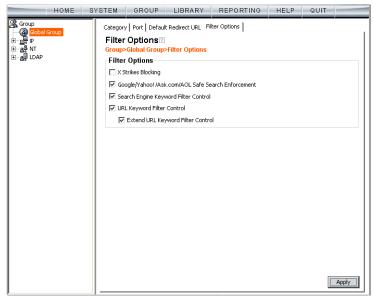


Fig. 6-37 Global Group Profile window, Filter Options tab

- a. Select filter options to be enabled.
- b. Click Apply.

As a result of these entries, a user who does not have a filtering profile will be served the Authentication Request Form so he/she can be authenticated.

### Activate NT authentication

After testing the NET USE command, the next step is to add the NET USE command to users' login scripts. We recommend that you add the 3-try login script to the existing domain login script.

The 3-try login script is used for attempting to log in the user to the authentication server in three separate attempts, in case of a login failure.

#### Step 1: Modify the 3-try login script

Place a copy of the 3-try login script in the netlogon folder on your Domain Controller. Note that this sample script should be modified to use your own Virtual IP address instead of the IP address (192.168.0.20) in the sample script. This script lets users be re-authenticated from the block page without re-running the whole domain login script.

The script is as follows:

echo off :start cls net use \\192.168.0.20\r3000\$ /delete

:try1 echo "Running net use..." net use \\192.168.0.20\r3000\$ if errorlevel 1 goto :try2 if errorlevel 0 echo code 0: Success goto :end

:try2 echo Running net use... net use \\192.168.0.20\r3000\$ if errorlevel 1 goto :try3 if errorlevel 0 echo code 0: Success goto :end

:try3 echo Running net use... net use \\192.168.0.20\r3000\$ if errorlevel 1 goto :error if errorlevel 0 echo code 0: Success goto :end

:error if errorlevel 1 echo code 1: Failed!

:end

Once this updated login script has been added to the domain, each time users log in to Windows they will also log in to the R3000. Users will be blocked according to the profiles set up on the domain.

#### Step 2: Modify the Global Group Profile

The last step of the activation process is to adjust the Global Group Profile to set the policy for members of an IP-based profile, or for users who are not authenticated.

If you set a restrictive profile, unauthenticated users will not be able to obtain access until they are successfully authenticated.

If you set up a less restrictive profile to allow access, a user can still be authenticated, but won't be prompted to authenticate him/herself unless attempting to access a site that is blocked. Since the login script will automatically run when the user logs in, a less restrictive profile might be used to allow logging with the user's name without forced blocking.

- 1. Click Global Group in the tree to open the pop-up menu.
- 2. Select Global Group Profile to display the Category tab of the Profile window.
- 3. In the Category Profile page, select categories to block, pass, white list, or assign a warn setting, and indicate whether uncategorized sites should pass, trigger a warn message for the end user, or be blocked.
- 4. Click Apply.
- 5. Click the Port tab to display the Port page.
- 6. Enter the Port number to be blocked, and then click **Add** to include the port number in the Block Port(s) list box.
- 7. After entering all port numbers to be blocked, click **Apply**.
- 8. Click the Default Redirect URL tab to display the Default Redirect URL page. Your options on this tab will vary, based on whether your network will be using net use based authentication only, or both Web-based and net use based authentication.
- 9. Click the Filter Options tab to display the Filter Options page. If necessary, select appropriate filter options to be enabled, and click **Apply**.

## **CHAPTER 7: TECHNICAL SUPPORT**

For technical support, visit 8e6 Technologies's Technical Support Web page at http://www.8e6.com/support.html, or contact us by phone, by e-mail, or in writing.

## Hours

Regular office hours are from Monday through Friday, 8 a.m. to 5 p.m. PST.

After hours support is available for emergency issues only. Requests for assistance are routed to a senior-level technician through our forwarding service.

## **Contact Information**

## Domestic (United States)

- 1. Call 1-888-786-7999
- 2. Select option 3

## International

- 1. Call +1-714-282-6111
- 2. Select option 3

## E-Mail

For non-emergency assistance, e-mail us at **support@8e6.com** 

#### **Office Locations and Phone Numbers**

#### 8e6 Corporate Headquarters (USA)

828 West Taft Avenue Orange, CA 92865-4232 USA

Local	:	714.282.6111
Fax	:	714.282.6116
Domestic US	:	1.888.786.7999
International	:	+1.714.282.6111

#### 8e6 Taiwan

7 Fl., No. 1, Sec. 2, Ren-Ai Rd. Taipei 10055 Taiwan, R.O.C.

Taipei Local	:	2397-0300
Fax	:	2397-0306
Domestic Taiwan	:	02-2397-0300
International	:	886-2-2397-0300

## **Support Procedures**

When you contact our technical support department:

- You will be greeted by a technical professional who will request the details of the problem and attempt to resolve the issue directly.
- If your issue needs to be escalated, you will be given a ticket number for reference, and a senior-level technician will contact you to resolve the issue.
- If your issue requires immediate attention, such as your network traffic being affected or all blocked sites being passed, you will be contacted by a senior-level technician within one hour.
- Your trouble ticket will not be closed until your permission is confirmed.

## **APPENDIX A: AUTHENTICATION OPERATIONS**

When enabling authentication in the interface, there are three tiers from which to select based on the type of server(s) used on the network, and various authentication options can be used with each of these tiers.

## **Authentication Tier Selections**

R3000 authentication is designed to support the following server types for the specified tier(s):

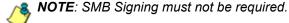
### Tier 1: Net use based authentication



**NOTE**: Login scripts must be used for net use based authentication.

Using SMB/NetBIOS:

- Windows NT 4.0, SP4 or later
- Windows 2000 or 2003 Server in mixed/legacy mode



Using LDAP:

- Microsoft Active Directory Mixed Mode
- Microsoft Active Directory Native Mode

### Tier 2, Tier 3: Web-based authentication

Using an NT authentication domain:

- Windows NT 4.0, SP4 or later
- Windows 2000 or 2003 Server in mixed/legacy mode



**NOTE**: SMB Signing must not be required.

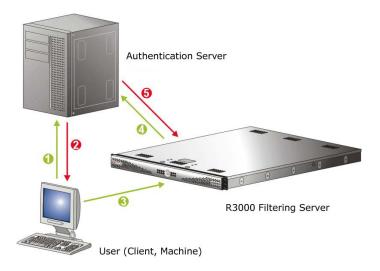
Using an LDAP domain:

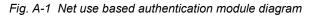
- Windows Active Directory 2002 and 2003
- Novell eDirectory
- SunONE directory server

## **Tier 1: Single Sign-On Authentication**

### Net use based authentication process

The following diagram and steps describe the operations of the net use based user authentication process:





- 1. The user logs on the network from a Windows workstation (also known as "client" or "machine").
- 2. The authentication server on the network sends the user's workstation a login script containing a net use command.
- The execution of this net use command causes the Windows workstation to create an "IPC share" (command exchange) with the R3000 filter box as a shared network device.

**NOTE**: When the IPC share is created, no drives are mapped in this share.

- 4. Upon creating the IPC share, the software in the R3000 queries the network authentication server with the user's login name and password sent by the workstation.
- 5. Once the user is successfully authenticated, the R3000 matches the user's login name or group name with a stored list of profile settings in the R3000. As a result of this process, the user is assigned the appropriate level of filtering.
- The matched profile is set for the user's IP address. The IPC connection is completed and maintained with periodic "keep-alives."
- 7. When the user logs off, changes IP addresses, loses the network connection, or in any way causes the IPC connection to be altered or deactivated, the R3000 senses this change and returns the IP address to the configured global filtering level.

WARNING: Authentication will fail if a Network Address Translation (NAT) device is set up between the authentication server and end user clients. Authentication may also fail if network connections are overloaded, causing a severe delay in the transportation of SMB traffic. This can be a problem in any network, but is most prevalent in WAN links, or in trunk links that are overloaded.

### **Re-authentication process**

- 1. The user loses his/her user profile after one of the following incidences occurs:
  - the server is rebooted, or
  - the connection from the user's machine to the server is dropped (as with a faulty network cable)
- 2. A block page displays for the user.
- 3. In order to re-access the Internet, the user must reauthenticate him/herself by clicking a link in the block page to generate a login script that re-authenticates the user's profile.

## Tier 1 authentication methods

Tier 1 supports two server authentication methods: Server Message Block (SMB) and LDAP.

### **SMB** protocol

SMB is a client/server protocol that requires the client to send a request to the server and receive an authentication response from the server, in order for the client to access resources on the network.

As the default protocol for NT 4.0 and earlier operating systems, SMB is supported by Windows 2000 and later OS versions.

### **SMB Signing**

SMB Signing is a Windows security feature that prevents an active network session between a client and server from being tapped. While Microsoft has made this feature available since Windows NT 4.0, it was not a default setting. However, in Windows 2003, this feature is enabled by default.

Since SMB Signing is not currently supported by the R3000, 8e6 recommends disabling the requirement for this feature. This does not disable SMB Signing for machines that support it, but allows devices that do not support SMB Signing to connect. To disable the default setting that requires SMB Signing for all connections, follow the instructions in Appendix B: Disable SMB Signing Requirements.

Alternately, if you have an available Windows 2000 Server—or an earlier Windows NT 4.0 Server—and are willing to establish the necessary trust relationships with the Windows 2003 Server, this earlier Windows server can be used as the primary authentication server for the R3000 instead of the Windows 2003 Server.



**NOTE**: For information on SMB Signing compatibility with the R3000, refer to the chart in Appendix B: Disable SMB Signing Requirements.

## LDAP protocol

LDAP is a directory service protocol that stores entries (Distinguished Names) in a domain's directory using a hierarchical tree structure. The LDAP directory service is based on a client/server model protocol to give the client access to resources on the network.

When a client connects to a server and asks it a question, the server responds with an answer and/or with a pointer to the server that stores the requested information (typically, another LDAP server). No matter which LDAP server the client accesses, the same view of the directory is "seen."

The LDAP specification defines both the communication protocol and the structure, or schema, to a lesser degree. There is an Internet Assigned Network Authority (IANA) standard set that all LDAP directories should contain. Novell and Microsoft both have additional schema definitions that extend the default setups.

Most server operating systems now support some implementations of LDAP authentication. The Microsoft Active Directory LDAP-based model became available with the release of Windows 2000.

## Name resolution methods

The name resolution process occurs when the R3000 attempts to resolve the IP address of the authentication server with the machine name of that server. This continuous and regulated automated procedure ensures the connection between the two servers is maintained.

When using an NT server with SMB, the name resolution process occurs when a valid Windows Internet Name Service (WINS) Server IP address is entered or a broadcast query is made.

When using an LDAP server, the name resolution process occurs when a Domain Name Service (DNS) entry is made. In order to accommodate this request, the LDAP server must have a valid DNS entry or the IP address must be added to the R3000 hosts file.



**NOTE**: If LDAP is used, client machines will still use the SMB authentication method to communicate with the R3000 server for Tier 1 authentication. LDAP communication only occurs between the R3000 server and the LDAP server.

## Configuring the authentication server

When configuring authentication, you must first go to the authentication server and make all necessary entries before configuring the R3000.

The following authentication components must be set up or entered on the console of the authentication server:

- domain name
- · usernames and passwords
- user groups
- login scripts

#### Login scripts

Login (or logon) scripts are used by the R3000 server for reauthenticating users on the network.

The following syntax must be entered in the appropriate directory on the authentication server console:

#### Enter net use syntax in the login script

The virtual IP address is used by the R3000 to communicate with all users who log on to that server. This address must be in the same subnet as the one used by the transmitting interface of the R3000.

• For testing, user information can be specified on the command line as follows:

#### NET USE \\virtualip\R3000\$ /user:DOMAIN-NAME\username password

Example: NET USE \\192.168.0.20\R3000\$/ user:LOGO\jsmith xyz579

 The command to disconnect a session is: NET USE \\virtualip\R3000\$ /delete

### View login script on the server console

The login script can be viewed on the authentication server console. This script resides in a different location on the server, depending on the version of the server:

#### Windows 2000 or Windows 2003 Server

\\servername.suffix\sysvol\domainname.suffix\
policies\{guid}\user\scripts\logon

c:\winnt\sysvol\sysvol\domainname.suffix\scripts

c:\winnt\sysvol\domainname\scripts

#### • Windows NT 4.0 Server

\\servername\netlogon

\\ipaddress\netlogon

c:\winnt\system32\repl\import\scripts

The login script must be specified either in the user's domain account or in the Active Directory Group Policy Object so that it runs when the user logs into the domain.

#### Block page authentication login scripts

In addition to the use of login scripts in the console of the authentication server, a login script path must be entered in the Block Page window of the R3000 Administrator console. This script is used for reauthenticating users on the network.

The following syntax must be used:

#### \\SERVERNAME\netlogon

or

#### \\IPaddress\netlogon



**NOTE**: See Block Page Authentication for more information about these entries.

### LDAP server setup rules

WARNING: The instructions in this user guide have been documented based on standard default settings in LDAP for Microsoft Active Directory Services. The use of other server types, or any changes made to these default settings, must be considered when configuring the R3000 server for authentication.

If LDAP will be used, the following items should be considered:

- The administrator in charge of the LDAP server should create a user for the R3000 in order to give that user full read access to the groups and users in the directory.
- Since the LDAP directory is structured as a tree, data needs to be retrieved the same way. Additionally, the order of the syntax is reversed compared to how it appears in normal file system folders. The deepest layer is listed first, in a similar manner as a DNS domain name: e.g. "engineering.company.net". In LDAP, a directory entry would look like this: "cn=engineering,dc=company, dc=net".
- Make sure all network configuration settings are correct (such as DNS, IP, etc.) before configuring LDAP settings.

**NOTE**: All filtering profiles are stored on the R3000 server.

# **Tier 2: Time-based, Web Authentication**

The following diagram and steps describe the operations of the time-based authentication process:

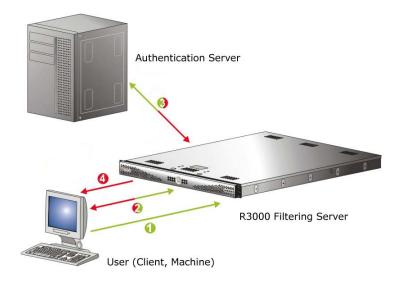


Fig. A-2 Web-based authentication module diagram

- 1. The user makes a Web request by entering a URL in his/ her browser window.
- 2. The R3000 intercepts this request and sends the user the Authentication Request Form, requesting the user to log in with his/her login ID and password.
- 3. The R3000 verifies the user's information with the authentication server (Domain Controller, Active Directory, LDAP, etc.).
- 4. The authenticated user is allowed to access the requested URL for the time period specified by the administrator.

## Tier 2 implementation in an environment

In an environment where Tier 2 time-based profiles have been implemented, end users receive filtering profiles after correctly entering their credentials into a Web-based Authentication Request Form. A profile remains active for a configurable amount of time even if the user logs out of the workstation, changes IP addresses, etc.

Tier 2 time-based profiles do not call for the R3000 to maintain a connection with the client machine, so the R3000 cannot detect when the user logs off of a workstation. In order to remove the end user's profile, one of two scripts detailed in this sub-section should be inserted into the network's login and/or logoff script.

The Tier 2 Script should be used if Tier 2 is the only tier implemented in an environment. The Tier 1 and Tier 2 Script should be used if Tier 2 is implemented along with Tier 1 in an environment. Since both sets of scripts use the NET USE command, the client machine must already have the ability to connect to the R3000 via NET USE in order for the profile to be removed in either environment.

## **Tier 2 Script**

If using Tier 2 only, this script should be inserted into the network's login script. If the network also uses a logoff script, 8e6's script should be inserted there as well. The inclusion of this script ensures that the previous end user's profile is completely removed, in the event the end user did not log out successfully.

echo off :start cls net use \\10.10.10.10\LOGOFF\$ /delete :try1 NET USE \\10.10.10.10\LOGOFF\$ if errorlevel 1 goto :try2 if errorlevel 0 echo code 0: Success

goto :end

:try2 NET USE \\10.10.10.10\LOGOFF\$

if errorlevel 1 goto :try3 if errorlevel 0 echo code 0: Success goto :end

:try3 NET USE \\10.10.10.10\LOGOFF\$ if errorlevel 1 goto :error if errorlevel 0 echo code 0: Success goto :end

:error if errorlevel 1 echo code 1: Failed!

:end net use \\10.10.10.10\LOGOFF\$ /delete

#### **Tier 1 and Tier 2 Script**

In an environment in which both Tier 1 and Tier 2 are used, this version of 8e6's script should be inserted into the network's login script. 8e6's script attempts to remove the previous end user's profile, and then lets the new user log in with his/her assigned profile.

echo off :startremove cls NET USE \\10.10.10.10\LOGOFF\$ /delete

:tryremove1 NET USE \\10.10.10.10\LOGOFF\$ if errorlevel 1 goto :tryremove2 if errorlevel 0 echo code 0: Success goto :endremove

:tryremove2 NET USE \\10.10.10.10\LOGOFF\$ if errorlevel 1 goto :tryremove3 if errorlevel 0 echo code 0: Success goto :endremove

:tryremove3 NET USE \\10.10.10.10\LOGOFF\$ if errorlevel 1 goto :removalerror if errorlevel 0 echo code 0: Success goto :endremove

:removalerror if errorlevel 1 echo code 1: Failed to send removal request!

:endremove net use \\10.10.10.10\LOGOFF\$ /delete :try1 NET USE \\10.10.10.10\R3000\$ if errorlevel 1 goto :try2 if errorlevel 0 echo code 0: Success goto :end

:try2 NET USE \\10.10.10.10\R3000\$ if errorlevel 1 goto :try3 if errorlevel 0 echo code 0: Success goto :end

:try3 NET USE \\10.10.10.10\R3000\$ if errorlevel 1 goto :error if errorlevel 0 echo code 0: Success goto :end

:error if errorlevel 1 echo code 1: Failed!

:end

in environments that use both Tier 1 and Tier 2, if a logoff script is used on the network, the Tier 2 Script should be inserted into the network's logoff script.

# **Tier 3: Session-based, Web Authentication**

The diagram on the previous page (Fig. A-2) and steps below describe the operations of the session-based authentication process:

- 1. The user makes a Web request by entering a URL in his/ her browser window.
- 2. The R3000 intercepts this request and sends the user the Authentication Request Form, requesting the user to log in with his/her login ID and password.
- 3. The R3000 verifies the user's information with the authentication server (Domain Controller, Active Directory, LDAP, etc.).
- 4. A pop-up window opens on the user's workstation while the original window loads the requested URL. The user will continue to be authenticated as long as the pop-up window remains open.

# 8e6 Authenticator

The 8e6 Authenticator ensures the end user is authenticated on his/her workstation, via an executable file that launches during the login process. To use this option, the 8e6 Authenticator client (authenticat.exe) should be placed in a network share accessible by the domain controller or a Novell eDirectory server such as NetWare eDirectory server 6.5.

**NOTE**: The 8e6 Authenticator client (authenticat.exe) can be downloaded from the Enable/Disable Authentication window. (See the Enable authentication, specify criteria sub-section in Chapter 2: Network Setup.)

## Environment requirements

### Minimum system requirements

The following minimum server components are required when using NetWare eDirectory server 6.5:

- · Server-class PC with a Pentium II or AMD K7 processor
- 512 MB of RAM
- Super VGA display adapter
- DOS partition of at least 200 MB and 200 MB available space
- 2 GB of available, unpartitioned disk space outside the DOS partition for volume sys:
- One network board
- CD drive

#### **Recommended system requirements**

The following server components are recommended for optimal performance when using NetWare eDirectory server 6.5:

- Server-class PC with two-way Pentium III, IV, or Xeon 700 MHz or higher processors
- 1 GB of RAM
- VESA compliant 1.2 or higher display adapter
- DOS partition with 1 GB of available space
- 4 GB of available, unpartitioned disk space outside the DOS partition for volume sys:
- One or more network boards
- Bootable CD drive that supports the El Torito specification
- USB or PS/2\* mouse

## Workstation requirements

The 8e6 Authenticator client works with the following operating systems:

- Windows XP Pro SP1 and 2
- Windows 2000 Pro SP4
- Windows XP and Windows 2000 with Novell client v4.91
- Windows Vista (all editions except Home)

**NOTE**: Windows XP Home and Vista Home Editions will not work with the 8e6 Authenticator unless the Novell eDirectory client is installed for login and deployment of the 8e6 Authenticator client using a Novell server.

## Work flow in a Windows environment

- 1. The administrator stores the 8e6 Authenticator client (authenticat.exe) in a network-shared location that a login script can access.
- 2. Using a Windows machine, an end user logs on the domain, or logs on the eDirectory tree via a Novell client.
- 3. The end user's login script evokes authenticat.exe.
- 4. The 8e6 Authenticator client determines the authentication environment by examining the Windows registry, then retrieves the username and domain name using either Windows or Novell APIs, and sends this information (LOGON event) to the R3000.
- 5. The R3000 looks up the groups to which the end user belongs (Windows AD, PDC, or eDirectory through LDAP or NTLM/Samba), and determines the profile assignment.
- 6. The R3000 sets the profile for the end user with username (including the group name, if it is available) and IP.
- 7. The 8e6 Authenticator client continually sends a "heartbeat" to the R3000—with a specified interval of seconds between each "heartbeat"—until the end user logs off.
- 8. The end user logs off, and the 8e6 Authenticator client sends a LOGOFF event to the R3000. The R3000 removes the user's profile.



**NOTE**: The 8e6 Authenticator can handle up to 20 logons per second.

### 8e6 Authenticator configuration priority

The source and order in which parameters are received and override one another are described below.



**NOTE**: Any parameter set at the end of the list will override any parameter that was previously set.

- 1. **Compiled Defaults**: Given no parameters at all, the client will try to execute using the default compilation.
- Configuration File (optional): The default location of the configuration file is the same path/name as the authenticat.exe client, but with a ".cfg" extension instead of ".exe". The full path/name can be specified on the command line with the CF[] parameter. Review the ++ comment following Table 1 for more information.
- 3. **Command Line** (optional): Options on the command line will override compiled defaults and the configuration file. The command line can be left blank.
- 4. **R3000 Configuration Packet** (optional): The R3000 may send a configuration packet that will override all other settings, including the command line. If the R3000 changes the IP address or port used by authenticat.exe, then when authenticat.exe reconnects, authenticat.exe will use the new IP address and port.



**NOTE**: The R3000 can force authenticat.exe to reconnect with a re-logon event packet.

#### 8e6 Authenticator configuration syntax

All configuration parameters, regardless of their source, will use the following format/syntax:

#### wAA[B]w{C}w

{Parameter 'AA' with Data 'B', and Comment 'C' ignored.}

#### w;DD[E]w{C}w

{The semicolon causes 'DD[E]' to be ignored, 'C' is also ignored.}

Whereas '**AA**' is a two-letter, case-insensitive parameter name, '**B**' is the value for this parameter wrapped in brackets ([]), and '**w**' is zero or more white spaces (space, tab, carriage return, line feed). '**C**' is completely ignored, and anything wrapped in braces ({}) is considered a comment. A ';' immediately preceding a parameter will cause that parameter and its data to be ignored, which is convenient for temporarily reverting a parameter to default values during testing.

#### Sample command line parameters

authenticat.exe LF[c:\] ra[192.168.0.43]Rr[40000]

#### Sample configuration file

RA[100.10.101.30] { R3000 Virtual IP address } RP[139] { R3000 Port } RH[30000] { Heartbeat timer (30 seconds) } RR[30000] { Reconnect time (before connecting again) } RC[10000] { Connect Timeout (how long to wait for a connection response) } LE[0] LF[\100.10.101.117\publogs\] { Where to put logs }

#### Sample R3000 configuration update packet 'PCFG'

After decryption, with protocol headers removed:

RH[30000]RC[1000]LE[1]

You only need to change the options you do not wish to remain as default. Often the IP address of the R3000 (RA) and the log file (LF) are the most desired options to change. Note that full network paths are allowed.

#### **Table of parameters**

The following table contains the different parameters, their meanings, and possible values.

Param ID	Parameter Meaning	Values	Dbg Default	Release Default
UT+	User's Logon Environment	1-256 (0 = Win32, 1 = Nov- ell)	255 (auto)	255 (auto)
RA # *	R3000 Virtual IP Address	255.255.255.255:PORT;	0.0.0.0	0.0.0.0
RV #	R3000 VPN Sup- port Table	(IP-IP;IP:PORT;),		
RP	R3000 Port	1-65535	139	139
RH	R3000 Heartbeat Timer MS	1-4 billion (milliseconds)	30000	30000 (30 sec)
RR	R3000 Reconnect Time MS	1-4 billion (milliseconds)	30000	30000 (30 sec)
RC	R3000 Connect Timeout MS	1-4 billion (milliseconds)	10000	10000 (10 sec)
LE	Log using Event Viewer	1 or 0 (event view or log file)	0 (log file)	1 (event view)
LD	Logging Detail	1, 2, 3, or 4	1 (light)	0 (errors only)
LF *	Path-ONLY to out- put log file	1-1000 alphanum	C:/	C:\
CF ++	Full path/name of Configuration File	1-1000 alphanum	_	_

- If UT[0] is set, then the Novell environment will be ignored, if present, and only the Windows environment information will be retrieved and sent to the R3000. If UT[1] is set and the Novell environment is invalid or the user is not authenticated with its Novell server, then the results sent to the R3000 are invalid (probably empty values). The default UT[255] auto detects Novell vs. Win32 and will automatically favor Novell authentication over Windows, if possible.
- \* Special Interest. Values most likely to change during testing, configuration, and production implementation.
- ++ Alternate configuration file is only valid when specified on the command line. It will be ignored in any other context. If the configuration file cannot be loaded from the alternate location, an error will be logged and an attempt will be made to load the default configuration file. If the alternate configuration file is specified and is blank (CF[]), the 8e6 Authenticator will not attempt to load any configuration file; this can minimally speed up execution time. The compiled default value of CF[-] causes the default configuration file loading to be attempted, which has the same full path and filename of the current, loaded 8e6 Authenticator executable, but with an extension of ".cfg" instead of ".exe". That is, if the 8e6 Authenticator client is "\\example\authenticat.exe", the search for the default configuration file would be "\\example\authenticat.cfg". It is not an error if the default configuration file does not exist. It is an error if the default configuration file exists but cannot be read or parsed correctly. Unknown parameters are ignored. Format/syntax errors will abort the reading and report an error, but the 8e6 Authenticator will attempt to continue running.
- For each IP address where ":PORT" is omitted from the address, the RP[] port value is used. For example, if RA[1.1.1.1:5555] is set, the RP[] parameter is ignored.

RP[] affects port-less addresses specified in the RV[] command as well.

- For RA[], each IP address is separated by a semi-colon ';' and the first IP address will be tried for each new connection attempt. When the main IP address fails to respond, the next IP address in the list will be tried, and so on, if it fails. After the last IP address is tried, the logic will continue from the first IP address again. A retry attempt on the main IP address is subject to the RR[] Reconnect time. After any disconnection, the logic will always begin with the main IP address as its first attempt.
- For RV[], sets of R3000 addresses are specified based on an IP range that matches the client's IP address; multiple destination R3000 addresses may be used in each set and will have the same functionality as multiple destinations specified in the RA[] parameter. Each set is surrounded by parentheses '()'s, and sets are separated by commas ','. Any local client IP address that does not match any set will use the RA[] address. Sample format:

RV[(102.108.1.0-102.108.1.255;1.1.1.1;2.2.2.2),(102.108.2.0-102.108.2.255;3.3.3:222)]

In this example, a client with an IP address of 102.108.1.5 would try to connect to 1.1.1.1 using the RP[] port (2.2.2.2 as the backup). A client with 192.168.2.15 would try to connect to 3.3.3.3 port 222, which has no backup.

 Any local address that would end up connecting to 0.0.0.0 will not be observed by the 8e6 Authenticator. This allows RV[] to allow only specified ranges of IP addresses to be observed by the 8e6 Authenticator.

# **Novell eDirectory Agent**

Novell eDirectory Agent provides Single Sign-On (SSO) authentication for an R3000 set up in a Novell eDirectory environment. Using Novell eDirectory Agent, the R3000 is notified by the eDirectory server when an end user logs on or off the network, and adds/removes his/her network IP address, thus setting the end user's filtering profile accordingly.

# Environment requirements

## **Novell eDirectory servers**

The following eDirectory versions 8.7 or higher with Master, Read/Write, Read replicas have been tested:

- eDirectory 8.7 in RedHat Linux 9.0
- eDirectory 8.7 in NetWare 6.5 SP5



**NOTE**: See 8e6 Authenticator: Environment requirements for Minimum and Recommended system requirements. These requirements also apply to eDirectory 8.7 in RedHat Linux 9.0.

#### **Client workstations**

To use this option, all end users must log in the network. The following OS have been tested:

- Windows 2000 Professional
- · Windows XP
- Macintosh

### **Novell clients**

The following Novell clients have been tested:

- Windows: Version 4.91 SP2
- Macintosh: Prosoft NetWare client Version 2.0

## Novell eDirectory setup

The eDirectory Agent uses the LDAP eDirectory domain configuration setup in the R3000 Administrator console. The eDirectory Agent receives notification from the eDirectory server regarding logon and logoff events by end users. The Novell client must be installed on each end user's workstation in order to handle logons to the eDirectory network. In this setup, the Novell client replaces the Windows logon application.

## R3000 setup and event logs

When using a Novell eDirectory server and choosing to use the Novell eDirectory Agent option in the R3000:

• Enable Novell eDirectory Agent in the Enable/Disable Authentication window.

1

**NOTES**: If using an SSO authentication solution, Tier 2 or Tier 3 should be selected as a fallback authentication operation.

When choosing the Novell eDirectory Agent option, the 8e6 Authenticator option must be disabled.

• If applicable, a back up server can be specified in the LDAP domain setup wizard, in the event of a connection failure to the primary Novell eDirectory server. Email alerts are sent to the administrator in such events.



**NOTE**: Back up server settings are made in the Default Rule tab of the LDAP Domain Details window, described in Chapter 4: LDAP Authentication Setup.

 Once the Novell eDirectory Agent option is set up, the View Log File window can be used to view end user logon/logoff events and the debug log.



**NOTE**: After the Novell eDirectory Agent is enabled, an individual's username will not display in the event log until he/she logs in again. Until that time, the user will be logged by his/her current filtering profile, which most likely would be IPGROUP or DEFAULT user.

# **Active Directory Agent**

Active Directory Agent is a Windows service that provides transparent user identification for Windows Active Directorybased networks. The Active Directory Agent (also called "AD Agent") collects information from several sources simultaneously and populates a single session table that identifies the current user for each active workstation on the network. This session table is forwarded to the R3000 so the end user is given the appropriate filtering profile.

The AD Agent can be installed on any Windows 2000 or 2003 server on the domain, and does not have to be installed on a domain controller.

In large networks, multiple AD Agent hosts can cooperate as a "team" to deal with issues of security partitioning, network bandwidth, and administrative responsibility boundaries.

## Product feature overview

- Provides Single Sign-On (SSO) transparent authentication
- · Supports Mixed or Native Windows environments
- Supports LDAP and LDAPS protocols
- · Auto-detects domains and domain controllers
- Works with an existing Tier 2/Tier 3 authentication configuration

#### Windows server requirements

- Windows 2000 or Windows 2003 server running on a 32bit platform
- · Latest Microsoft patches/service packs applied
- At least 512 MB RAM
- 100 MB disk space
- Special domain user account for the service with permissions to read AD Agent event logs

#### Work flow in a Windows environment

- 1. AD Agent is installed in either a domain controller or on a separate Windows server that can talk to the domain controller via Windows APIs.
- 2. End users log on/off the network, and the event is logged in the event viewer.
- 3. AD Agent queries the event log or probes workstations to obtain log on/log off event information (login name, domain name, IP address of machine).
- 4. AD Agent sends information with the event indicator to the R3000 Authentication Module.
- 5. R3000 assigns or removes a profile based on the user information and event indicator.

# Set up AD Agent

### Step 1: AD Agent settings on the R3000

To set up Active Directory Agent on the R3000, go to System > Authentication > Enable/Disable Authentication window in the R3000 interface, and specify the following criteria:

HOME S'	/STEM	GROUP	LIBRARY	REPORTING	HELP	QUIT	
System - Control - Network - Administrator - Secure Logon - Diagnostics		nentication ation		n 2 Authentication	Er	nable	Disable
Alert Patch Synchronization Mode Authentication NIC Mode Backup/Restore Rest Redius Authentication Settin, SNMP Hardware Failure Detection X Strikes Elocking	Web-based Authentication <sup>©</sup> Tier 1: Web-based Authentication disabiled (Net Use enabled) <sup>®</sup> Tier 2: Use time-based profiles, with time-out (in minutes): 30 <sup>®</sup> Tier 3: Use persistent logins via a Java Applet         Tier 2: 8:3 Note: In an organization with more than 5000 users, slowness may be experienced during the         authentication process. In this scenario, Be6 recommends using an R3000 Filter with an SSL accelerator         card installed. Please contact 8e6 for more information.						
Warn Option Setting Customization CMC Management	⊙ on ⊖ o It is highly re -AD Agent	commended	that the 8e6 Auth	enticator option be tur			Authenticator
L—Quota Setting	© on O on	off lirectory A off Keep Aliv	5		e <u>6 AD Agent Ir</u> ssion lifetime (		Settings
<u>د</u>							Apply

Fig. A-3 Enable/Disable Authentication window, AD Agent frame

- 1. In the AD Agent frame, click "On".
- 2. Click **Settings** to open to the AD Agent Settings pop-up window, used for entering criteria to permit the primary AD Agent to send data to the R3000:

Computer Name	Passphrase:	
ADSERVER1	****	
JSMITH23	*****	
	D	elete
Computer Name:		
Passphrase:		
Passphrase:		

Fig. A-4 AD Agent Settings pop-up window

- 3. In the **Computer Name** field, enter the name of the primary AD Agent machine.
- 4. Enter from seven to 20 alphanumeric characters in the **Passphrase** field, and enter the same characters again in the **Confirm** field.
- 5. Click **Add** to include a row to the list above, showing the Computer Name in all upper-case letters, and asterisks for the Passphrase.

**NOTES**: To modify any of the criteria for an existing Computer Name entry, select the Computer Name from the list, and then modify the fields below. Be sure to make entries in the Passphrase and the Confirm fields before clicking Modify.

To delete a Computer Name from the list, select the Computer Name and then click Delete.

- 6. After making your entries, click the "X" in the upper right corner of the pop-up window to close it.
- 7. Click **Apply** in the Enable/Disable Authentication window to save your settings.

#### Step 2: Configure the domain, service account

- 1. Create a new group on the domain named dcagent\_services.
- 2. Create a new domain user account named dcagent\_service and make it a member of the dcagent\_services group.

**TIP**: Be sure to record the password for this domain account; you will be prompted for it during the configuration wizard process (see Step 3C: Run AD Agent configuration wizard).

3. Add the Administrator account to the dcagent\_services group.



**NOTE**: Any users in the dcagent\_services group have permission to manage the AD Agent.

- 4. Open the Domain Security Policy console, and do the following:
  - a. Expand the Local Policies > Audit Policy node of the Security Settings tree.
  - b. Double-click the Audit account logon events policy.
  - c. Check the "Define these policy settings" checkbox.
  - d. Check the "Success" checkbox.

Make the same settings in the Audit logon events policy.

- 5. Close the Domain Security Policy console.
- 6. Open the Domain Controller Security Policy console, and do the following:
  - a. Expand the Local Policies > User Rights Assignment node of the tree.
  - b. Double-click the Manage auditing and security log policy.
  - c. Check the "Define these policy settings" checkbox.

d. Add the dcagent\_services and Domain Admins groups to the list of permitted users.

If installing the AD Agent on a domain controller only:

- Double-click the "Allow Logon Locally" setting.
- Add the dcagent\_service account to the list of permitted users.
- 7. Close the Domain Controller Security Policy console.

### Step 3: AD Agent installation on Windows server

The steps in this section provide instructions for setting up and running AD Agent on a simple, single-domain network.

#### Step 3A: Download DCAgent.msi

- 1. In the R3000 interface, go to System > Authentication > Enable/Disable Authentication window.
- 2. In the AD Agent frame, click **Download 8e6 AD Agent Installer** to download the AD Agent (DCAgent.msi) to the administrator's machine.

### Step 3B: Run AD Agent installation setup

1. Launch DCAgent.msi:



Fig. A-5 Run DCAgent.msi

**NOTE**: If prompted, install Microsoft .NET Framework 2.0. Framework may require updating other Windows components before installing the AD Agent.

2. Click **Run** to open the End User License Agreement (EULA) in the 8e6 AD Agent installation setup wizard:

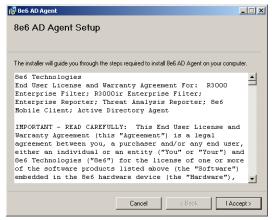


Fig. A-6 AD Agent EULA

 After reading the EULA, click Accept to proceed with specifying the destination folder for installing the AD Agent:

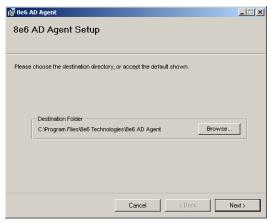


Fig. A-7 Specify installation setup destination

4. After specifying the destination folder for installing the AD Agent, click **Next** to begin the installation setup process:

🛃 8e6 AD Agent	<u> </u>
Installing 8e6 AD Agent	
8e6 AD Agent is being installed.	
Please wait	
Cancel < Back	Next >

Fig. A-8 AD Agent installation

5. When the AD Agent installation setup process has successfully finished, completion information displays:

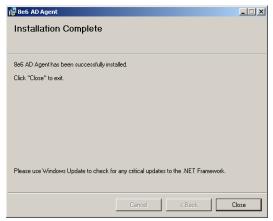


Fig. A-9 Installation Complete

Click **Close** to close the installation setup window and to open the AD Agent configuration wizard window (see Fig. A-10). The configuration wizard can be completed now or at a later point in time.

#### Step 3C: Run AD Agent configuration wizard

The AD Agent configuration wizard should be run when setting up AD Agent for the first time, and if the role of the AD Agent on the current machine changes (from primary to satellite, or vice versa).

TIP: To access the configuration wizard after the initial setup process, go to Start on the Windows machine, and from the 8e6 AD Agent menu select Quick-Configuration Wizard.

 Review the contents of the first wizard page that explains how to configure the domain and service account, as described in Step 2:

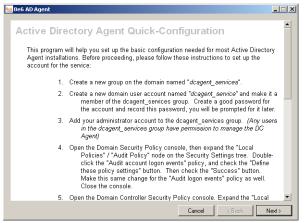


Fig. A-10 AD Agent configuration wizard, preliminary instructions

Click Next to go to the account and password page:

🚾 8e6 AD Agent	
	name and password below. If you have not yet
created the dcagent_services acco follow the instructions for account se	unt or the dcagent_services group, click "Back" and etup.
Account:	LOGO \dcagent_service
Password:	
Confirm password:	
	Do not update service account settings.
	Cancel < Back Next>
	Cancer (Dack Next)

Fig. A-11 Account and password information

- 2. By default, the Account field is populated with the path of the dcagent\_service account.
  - a. Enter the **Password** for this account, specified during Step 2.
  - b. Enter this same password again in the **Confirm password** field.

**NOTE**: If modifying an existing AD Agent installation and no changes need to be made to the account path or password, click the "Do not update service account settings" checkbox to bypass this option.

c. Click **Next** to display the page that lets you specify the role of AD Agent on this machine being configured:

🔤 8e6 AD Agent	_ 🗆 🗵
Select an agent role for this computer. A Primary agent can operate independently, or it can be the central control station for a team of agents. A Satellite agent can only operate as a subordinate member of a team, reporting its results to a Primary agent. Click Help for additional information about agent roles. If you're uncettarn, or this is the first agent installed. Iter ecommended selection is Primary.	
Hel	2
Role: Primary	
If this computer is to be a Satellite agent, provide the name of the Primary agent computer to which it will report.	
Primary agent computer name:	
Cancel < Back	Next >

Fig. A-12 Specify role of AD Agent on current machine

- 3. By default, the **Role** of the AD Agent on the current machine being configured is "Primary"—indicating that this is either the only machine running AD Agent, or this is the central machine among a team comprised of one or more "Satellite" machines running AD Agent.
  - If the role of this AD Agent is "Primary" Do the following:
    - a. Make sure "Primary" is selected.
    - b. Click **Next** to display the page for specifying R3000 criteria (see Fig. A-13).
  - If the role of this AD Agent is "Satellite" Do the following:
    - a. Select "Satellite".

- b. Enter the **Primary agent computer name** that will delegate to this machine the areas of the network to scan for end user logon/logoff events. This satellite machine running the AD Agent will send its logon/logoff event data to the primary machine running the AD Agent.
- c. Click **Next** to display the confirmation page (see Fig. A-14).
- 4. If configuring a primary AD Agent, make the following entries in the appropriate fields:

🛀 8e6 AD Agenl	t			
	This information is used when the AD Agent transmits user session information to the 8e6 filter appliance.			
	Enable transmissions to	this appliance.	Help	
	Appliance address:	200.10.100.23		
	Port	26267		
	Appliance passphrase:	REPRESENT		
	(Repeat passphrase):	жиник		
	Descriptive name:	Filter #1		
	Normally the AD Agent sends small up only new user sessions. In some cas on the filter appliance), it can be usefi	es (such as when maintena		
		Cano	el < Back	Next >

Fig. A-13 R3000 criteria

- a. Enable transmissions to this appliance Click this checkbox to enable the AD Agent configured on the current machine to send information to the R3000 specified in this page.
- b. **Appliance address** Enter the IP address of the R3000 that will receive AD Agent logon/logoff event information.
- c. **Port** By default, "26267" displays for the R3000's port. This port number should only be changed if the R3000 is using a different port number.

- d. **Appliance passphrase** Enter the passphrase that was entered in the Passphrase field in the AD Agent Settings pop-up window (accessible via the Enable/ Disable Authentication window).
- e. (**Repeat passphrase**) Re-enter the passphrase entered in the previous field.
- f. **Descriptive name** By default "Filter #1" displays. A descriptive name for the R3000 can be entered in this field.
- After configuring the AD Agent in either a primary or satellite role, click **Next** to display the confirmation page, indicating whether the AD Agent started up successfully:

3e6 AD Agent		_ 🗆
The AD Agent service started successfully.		
The AD Agent service stated successibility.		
When you click Close, the AD Agent control panel will open. You make advanced configuration changes with the control panel if nee		
OS Version is Microsoft Windows NT 5.1.2600 Service Pack 2		
Reading Active Directory domain tree Skipping service account changes		
Granting full control to dcagent services for directory C:\Program I	Files\8e6 Technologies\8e6 DC Aq	ent and
Directory recursion completed, 17 directories updated.		
Granting access to HKLM\SOFTWARE\8e6DCAgent for dcagent_s ACL adjustments completed.	ervices group	
Saving configuration file C:\Program Files\8e6 Technologies\8e6 D	C Agent\bin\dcagent.config	
Enabling global work allocation		
Starting service Service started successfully, configuration completed.		
		<u> </u>
Copy to Clipboard		
	Cancel < Back	Close
	Composition C D dox	0.056

Fig. A-14 Confirmation information

**TIP**: Any errors during the configuration wizard process display in red text. If errors are present, or if any instructions are marked "MANUAL ACTION REQUIRED," use the Copy to Clipboard button to capture the log for reference by 8e6 Technical Support.

 After the configuration wizard has successfully completed, click Close to close the AD Agent configuration wizard and to launch the Active Directory Agent console, displaying today's Activity log (see Fig. A-15). **NOTE**: Information about how to view and use the Activity log is explained in the Activity tab section of Use the Active Directory Agent console.

# Use the Active Directory Agent console

The Active Directory Agent console is used for displaying results of workstation probe searches, for running or stopping the AD Agent service, and for configuring a primary AD Agent or Agent team.

**TIP**: To access the Active Directory Agent console after the initial setup process, go to Start on the Windows machine, and from the 8e6 AD Agent menu select AD Agent Control Panel.

## Activity tab

Activity displays by default at the end of the configuration wizard process or if the AD Agent was configured as a satellite, and also whenever the Activity tab is clicked in the Active Directory Agent console of a primary AD Agent:

essions onfigurati	Activity			
onfigurati				
	on 📑 View	as text 🔠	View as sprea	dsheet
				Loaded 5000 activity log records for today.
ime	Application	Level	Channel	Message
2:18:59	NetScan	App	Netsca	printSession Fwd_to_collector @/SE.1.13 200.10.101.101 RAP-SERVER1 Administrator L0G00 Y Unknown 2007-01-26 20
2:19:00	NetScan	Module	Netsca	Host 200.10.101.136 error #5 in NefWkstaUserEnum
2:19:00	NetScan	Module	Netsca	NwkstaProbe 236 Error probing 200.10.101.136, error is E455 / E_NwsktaWorkstationProbe_AccessDenied
2:19:00	NetScan	Module	Netsca	Host 200.10.101.80 error #5 in NetWikstaUserEnum
2:19:00	NetScan	Module	Netsca	Host 200.10.100.241 error #5 in NefWkstalJserEnum
2:19:00	NetScan	Module	Netsca	NwkstaProbe 71 Error probing 200.10.101.80, error is E455 / E_NvsktaWorkstationProbe_AccessDenied
2:19:00	NetScan	Module	Netsca	NwkstaProbe 307 Error probing 200.10.100.241, error is E455 / E_NwsktaWorkstationProbe_AccessDenied
2:19:01	NetScan	Detail	Netsca	NwkstaProbe 130 User login re-confirmed for logoo/tspuna at 200.103.103.154
2:19:01	NetScan	App	Netsca	printSession Fwd_to_collector @ISE.1.13 200.10.101.136 ED.AC-RCHRISTIAS N Unknown 2007-01-26 20:19:00 Z 0001-
2:19:01	NetScan	App	Netsca	printSession Fwd_to_collector @/SE.1.13 200.10.100.241 ADMIN-AMILLAR N Unknown 2007-01-26 20:19:00 Z 0001-01
2:19:01	NetScan	App	Netsca	printSession Fwd_to_collector @/SE.1.13 200.10.101.80 QC/wCHAUNA N Unknown 2007-01-26 20:19:00 Z 0001-01-01
2.19.01	NetScan	App	Netsca	pintSession Fwd_to_collector @4SE.1.13 200.103.143.154 SALES-TSPAN tspuna LDG00 Y Interactive 2007-01-26 20
2:19:02	NetScan	Detail	Netsca	NwkstaProbe 284 User login re-confirmed for logoo\administrator at 200.10.101.84
2:19:02	NetScan	App	Netsca	printSession Fwd_to_collector @ISE.1.13 200.10.101.84 RAP-SERVER2 Administrator LOGOO Y Unknown 2007-01-26 20:1
2:19:02	Transmit	App	TxSocket	
2:19:02	NetScan	Module	Netsca	Host 200.10.101.79 error #5 in Nefw/kstaUserEnum
219.02	NetScan	Module	Netsca	NwkstaProbe 174 Error probing 200.10.101.79, error is E455 / E_NwsklaWorkstationProbe_AccessDenied
2.19.02	NetScan	App	Netsca	printSession Fwd_to_collector @4SE.1.13 200.10.101.79 QC-RNAGANA_N Unknown 2007-01-26 20.19.02 Z_0001-01-01 0
2:19:03	NetScan	Module	Netsca	Host 200.10.101.142 error #5 in NetWkstaUserEnum
2:19:03	NetScan	Module	Netsca	NwkstaProbe 161 Error probing 200.10.101.142, error is E455 / E_NwsktaWorkstationProbe_AccessDenied
2:19:03	NetScan	App	Netsca	printSession Fwd_to_collector @ISE.1.13 200.10.101.142 EDAC.AFANA N Unknown 2007-01-26 20:19:03 Z 0001-01-01
2:19:03	NetScan	Module	Netsca	Host 200.10.101.181 error #5 in NefwikstalJserEnum
2.19.03	NetScan	Module	Netsca	NwkstaProbe 152 Error probing 200.10.101.181. error is E455 / E_NwsktaWorkstationProbe_AccessDenied
2.19.03	NetScan	App	Netsca	printSession Fwd_to_collector @4SE.1.13 200.10.101.181 EDAC-FAAI N Unknown 2007-01-26 20.19.03 Z 0001-01-01 00
2:19:04	NetScan	Module	Netsca	Host 200.10.101.81 error #5 in NetWksteUserEnum
2:19:04	NetScan	Module	Netsca	NwkstaProbe 244 Error probing 200.10.101.01, error is E455 / E_NwsktaWorkstationProbe_AccessDenied
2:19:04	NetScan	App	Netsca	printSession Fwd_to_collector @ISE 1.13 200.10.101.81 QCA4IA2 N Unknown 2007-01-26 20.19.04 Z 0001-01-01 00:00
219.04	Transmit	App	TxSocket TxResp	
	Transmit	Detail		

Fig. A-15 Primary AD Agent console, Activity tab

In this tab the activity log displays, comprised of rows of records for the most recent activity on the current machine running the AD Agent. The most recent activity displays at the bottom of the log.

**TIP**: To stop the activity log from automatically scrolling, rightclick in the table and de-select the "Auto-scroll" checkbox. Click this checkbox again to enable automatic scrolling.

For each row in this table, information is included in the following columns:

- Time time the activity was logged (in local military time, using the HH:MM:SS format).
- Application program in AD Agent that produced the record (e.g. Netscan, Transmit, Monitor, Collector, Logscan).
- Level severity of the filter used by the application (e.g. App, Error, Detail, Module).
- Channel type of information that was logged for the record, as defined by the application and its configuration file contents (e.g. NetscanWorkstationProbe, Transmit-Control, CollectorIntake, EventLogParsing).
- Message detailed information about activity for that record.

**NOTE**: Any record that displays in red text indicates an error on the server. All errors reported in this log will be sent in a daily email message to the designated administrator (see the Notifications page Active Directory Agent Configuration window ). The following actions can be performed via the Activity tab:

- View/download the activity log in the text file format -Click the **View as text** button to launch a Notepad file containing the contents of the activity log.
- View/download the activity log in the Excel spreadsheet format - Click the View as spreadsheet button to launch a spreadsheet in Microsoft Excel containing the contents of the activity log.
- View/modify primary AD Agent configuration, stop/start AD Agent service - Click the **Configuration** button to open a pop-up window containing AD Agent configuration tools and configured settings (see Active Directory Agent Configuration window).

## Sessions tab

Sessions displays by default when the Active Directory Agent console is launched on a machine running the AD Agent in the primary role, or whenever the Sessions tab is clicked in the console of a primary AD Agent:

166.254/0715         0.COAR         0.0/010000         01/25 (80.2)           11         193.663.010         0.CCEARR         0.0/010000         01/23 (80.2)           Administrator         200.103.1015         RAPSETWR11         01/23 (00.0)         01/23 (80.2)           Administrator         200.103.1015         RAPSETWR11         01/23 (00.0)         01/23 (80.2)           Interview         200.103.1015         RAPSETWR11         01/23 (00.0)         01/25 (80.2)           Interview         200.103.1015         RAPSETWR11         01/25 (80.2)         01/25 (80.2)           Into         200.103.10135         MAPRETSPINCK         01/25 (80.2)         01/25 (80.2)           Into         200.103.10136         MAPRETSPINCK         01/10 (80.0)         01/25 (80.2)           Into         200.103.10136         MAPRETSPINCK         01/10 (80.0)         01/25 (80.2)           Into         200.103.10136         MAPRETSPINCK         01/10 (80.0)         01/25 (80.2)           Into         200.103.1014         MAPRETSPINCK         01/10 (80.0)         01/25 (80.2)           Into         200.103.1014         MAPRETSPINCK         01/10 (80.0)         01/25 (80.2)           Into         200.103.1014         MAPRETSPINCK         01/10 (80.0)	e6 Activ	e Directory	Agent				
Properties         Projecties         Projec	assions Activity	1					 
166.254/0715         0.COAR         0.0/010000         01/25 (80.2)           11         193.663.010         0.CCEARR         0.0/010000         01/23 (80.2)           Administrator         200.103.1015         RAPSETWR11         01/23 (00.0)         01/23 (80.2)           Administrator         200.103.1015         RAPSETWR11         01/23 (00.0)         01/23 (80.2)           Interview         200.103.1015         RAPSETWR11         01/23 (00.0)         01/25 (80.2)           Interview         200.103.1015         RAPSETWR11         01/25 (80.2)         01/25 (80.2)           Into         200.103.10135         MAPRETSPINCK         01/25 (80.2)         01/25 (80.2)           Into         200.103.10136         MAPRETSPINCK         01/10 (80.0)         01/25 (80.2)           Into         200.103.10136         MAPRETSPINCK         01/10 (80.0)         01/25 (80.2)           Into         200.103.10136         MAPRETSPINCK         01/10 (80.0)         01/25 (80.2)           Into         200.103.1014         MAPRETSPINCK         01/10 (80.0)         01/25 (80.2)           Into         200.103.1014         MAPRETSPINCK         01/10 (80.0)         01/25 (80.2)           Into         200.103.1014         MAPRETSPINCK         01/10 (80.0)			obe workstation 🗮 Vie	w as spreadsheet			
193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193         193 <th>ser</th> <th>IP Address</th> <th>Workstation</th> <th>Login</th> <th>Error Domain</th> <th>Venied</th> <th></th>	ser	IP Address	Workstation	Login	Error Domain	Venied	
Administrat         200 103 103 0         RAPSETMP11         01/22 09:42         L0000         01/25 09:29           Administrat         200 103 103 00         RAPSETMP1         01/23 09:42         L0000         01/25 09:29           Image         200 103 103 00         RAPSETMP1         01/22 09:42         L0000         01/25 09:29           Image         200 103 103 103         RAPSETMP3         01/20 000         01/25 09:29           Image         200 103 103 103         MAPRET STRUK         01/20 000         01/25 09:29           Image         200 103 103 103         MAPRET STRUK         01/10 000         01/25 09:29           Image         200 103 103 103         MAPRET STRUK         01/10 0000         01/25 09:29           Image         200 103 103 14         AGCTRVA 578         01/10 0000         01/25 09:29           Ichoo         200 103 103 14         AGCTRVA 578         01/10 0000         01/25 09:29           Ichoo         200 103 103 14         AGCTRVA 578         01/10 0000         01/25 09:29           Ichoo         200 103 103 14         AGCTRVA 578         01/10 0000         01/25 09:29           Ichoo         200 103 103 14         AGCTRVA 578         01/20 09:29         L06000         01/25 09:29 <t< td=""><td>4</td><td>166.254.97.15</td><td>QC-DAR</td><td>01/01 00:00</td><td></td><td>01/25 08:29</td><td></td></t<>	4	166.254.97.15	QC-DAR	01/01 00:00		01/25 08:29	
Administrator         2001 133 1038         RAP SERVR2         01/23 0024         L0000         01/25 0023           pto         2001 103 1008         ACC 5VF         01/07 0002         01/25 0023           pto         2001 103 1001 1018         ACC 5VF         01/07 0002         01/25 0023           pto         2001 103 1010 101         ACC 5VF         01/07 0000         01/25 0023           1         2001 103 1010 13         MAPRE 1 SPICK         01/07 0000         01/25 0023           1         2001 103 1010 14         SALES 4/000         01/25 0023         L0600         01/25 0023           2001 103 1010 14         SALES 4/00P         01/01 0000         01/25 0023         L0600         01/25 0023           2001 103 1011 4         SALES 4/00P         01/01 0000         01/25 0023         L0600         01/25 0023           2001 103 1011 4         SALES 4/00F         01/01 0000         01/25 0023         L0600         01/25 0023           2001 103 1011 4         SALES 4/00F         01/20 0023         L0600         01/25 0023           2001 103 1011 4         SALES 4/00F         01/20 0023         L0600         01/25 0023           2001 103 1015 4         SALES 4/00F         01/70 007         L0600         01/25 0023	1	199.168.30.10	QC-EFARR	01/01 00:00		01/23 15:09	
200         101         101         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012         012 <td>Administrator</td> <td>200.103.103.5</td> <td>RAP-SERVR1</td> <td>01/23 08:42</td> <td>L0600</td> <td>01/25 08:28</td> <td></td>	Administrator	200.103.103.5	RAP-SERVR1	01/23 08:42	L0600	01/25 08:28	
jub         200.103.103.115         SALES-AVIEN         07.25 08.25         07.25 08.25           ind         200.103.103.15         MARFET SMICK         07.40 00.00         07.25 08.25           ind         200.103.103.15         MARFET SMICK         07.01 00.00         07.25 08.25           ind         200.103.103.17         SALES-ARDO         07.05 08.25         L0600         07.25 08.25           ind         200.103.103.17         SALES-ARDO         07.01 00.00         07.25 08.25           id         200.103.103.14         EDEC-DTAY         07.01 00.00         07.25 08.25           idwo         200.103.103.14         SALES-ARDO         07.25 08.25         L0600         07.25 08.25           idwo         200.103.103.14         SALES-ARDUG         07.25 08.25         L0600         07.25 08.25           idwo         200.103.103.15         SALES-ARDUG         07.25 08.25         L0600         07.25 08.25           igabs         200.103.103.15         SALES-ARDUG         07.05 08.25         L0600         07.25 08.25           igabs         200.103.103.15         SALES-ARDUN         07.07 08.07         L0600         07.25 08.23           igabs         200.103.103.15         SALES-ARDUN         07.07 08.27         L0600		200.103.103.6	RAP-SERVR2	01/23 08:41	L0G00	01/25 08:28	
Image         20010310318         MARKETSHICK         01/00000         01/25 0823           Image         20010310319         0464,04700P         01/25 0823         L06000         01/25 0823           Image         20010310319         0464,04700P         01/01 0000         01/25 0823           Image         20010310319         0464,04700P         01/01 0000         01/25 0823           Image         200103103142         SALES CBMD         01/25 0823         L06000         01/25 0823           Image         200103101142         SALES CBMD         01/25 0823         L06000         01/25 0823           Image         20010310105         SALES FIGUAL         01/25 0823         L06000         01/25 0823           Image         20010310105         SALES FIGUAL         01/25 0823         L06000         01/25 0823           Image         2001031015         SALES FIGUAL         01/25 0823         L06000         01/25 0823           Image         2001031015         MAIRET HARE         01/01 0000         E455         01/25 0823           Image         2001031015         HARHET SHOW         01/01 0000         01/25 0823           Image         2001031015         HARHET SHOW         01/01 0000         01/25 0823	1	200.103.103.66	ACCT-SVR	01/01 00:00		01/25 08:29	
Ind         200.103.103.127         SALES-ARDO         0.1/25 00.23         L0600         0.1/25 00.23           200.103.103.103         044L6/APTOP         0.1/01.0000         01/25 00.23           cbw         200.103.103.14         ED0C DTA/         0.1/01.0000         01/25 00.23           cbw         200.103.103.14         ED0C DTA/         0.1/01.0000         01/25 00.23           cbw         200.103.103.14         SALES-CBR0         01/25 00.23         L0600         01/25 00.23           cbw         200.103.103.14         SALES-CBUG         01/25 00.23         L0600         01/25 00.23           robay         200.103.103.145         SALES-ARDUG         01/25 00.23         L0600         01/25 00.23           robay         200.103.103.155         SALES-ARDUG         01/25 00.23         L0600         01/25 00.23           robay         200.103.103.155         SALES-ARDUG         01/25 00.23         L0600         01/25 00.23           robay         200.103.103.154         SALES-ARDUN         01/01 00.00         01/25 00.23           robay         200.103.103.154         SALES-ARDUN         01/01 00.00         01/25 00.23           robay         200.103.103.154         SALES-ARDUN         01/01 00.00         01/25 00.23		200.103.103.131	SALES-JVIGN	01/25 08:29	LOGOO	01/25 08:29	
20010310319         046LAPTOP         01/01 00:00         01/25 08:23           20010310319         046LAPTOP         01/01 00:00         01/25 08:23           2000         20010310142         SALES CBRD         01/26 08:23         01/25 08:23           2000         200103101142         SALES CDUG         01/25 08:23         01/25 08:23           colog         200103101144         SALES CDUG         01/25 08:23         01/25 08:23           colog         200103101149         SALES FIGUL         01/25 08:23         01/25 08:23           au         200103101151         SALES FIGUL         01/25 08:23         01/25 08:23           au         200103101151         SALES FIGUL         01/25 08:23         01/25 08:23           impute         20010310151         SALES FIGUL         01/10 08:0         01/25 08:23           impute         <	1	200.103.103.136	MARKET-SNICK	01/01 00.00		01/25 08:29	
200103103141         ED0CDTAY         01/07 00:00         07/25 08:23           ebox         200103103142         SLES C&BD         07/25 08:23         L05000         07/25 08:23           codug         200103103144         ACCTING SYS         07/37 08:23         L05000         07/25 08:23           codug         200103103144         SLES CADUG         07/25 08:23         L05000         07/25 08:23           raybe         20010310115         SLES AdvLL         07/25 08:23         L05000         07/25 08:23           abl         20010310115         SALES AdvLL         07/25 08:23         L05000         07/25 08:23           abl         20010310115         SALES AdvLL         07/25 08:23         L0500         07/25 08:23           abl         20010310115         SALES AdvLL         07/25 08:23         L0500         07/25 08:23           abl         20010310115         SALES ATONN         07/17 08:07         L0500         07/25 08:23           abl         20010310115         SALES ATONN         07/17 08:07         L0500         07/25 08:23           abl         20010310115         SALES ADO08         07/17 08:21         L05000         07/25 08:23           abl         20010310115         SALES ADO10         07/17 08:		200.103.103.137	SALES-RROD	01/25 00:29	L0600	01/25 08:29	
ebso         20010310142         SALES GERD         01/25 68:23         01/25 68:23           eskg         20010310144         SALES GUIS         01/20 08:23         01/25 08:23           eskg         20010310149         SALES GUUS         01/25 08:23         L0500         01/25 08:23           eskg         200103101151         SALES FAGUL         01/25 08:23         L0500         01/25 08:23           esk         200103101151         SALES FAGUL         01/25 08:23         L0500         01/25 08:23           esk         200103101151         SALES FAGUL         01/25 08:23         L0500         01/25 08:23           esk         200103101151         SALES FSHIN         01/25 08:24         L0500         01/25 08:23           esk         200103101151         SALES FSHIN         01/01 00:00         E455         01/25 08:23           esk         200103101151         SALES FSHIN         01/01 00:00         01/25 08:23           esk         200103101151         SALES FSHIN         01/01 00:00         01/25 08:23           esk         200103101151         SALES FSHIN         01/10 10:00         01/25 08:23           esk         200103101151         SALES FSHIN         01/10 10:00         01/25 08:23           esk<	1	200.103.103.138	BAGLAPTOP	01/01 00:00		01/25 08:29	
200         131         144         ACCINES 958         01/40         00.00         01/25 08.29           cobg         200         103.102.149         SALES ACUG         01/25 08.29         L06000         01/25 08.29           rade         200.103.102.119         SALES AGUL         01/25 08.29         L06000         01/25 08.29           adi         200.103.103.115         SALES AGUL         01/25 08.29         L0600         01/25 08.29           adi         200.103.103.115         SALES AGUL         01/25 08.29         L0600         01/25 08.29           adi         200.103.103.115         MARETAKE         01/20 08.29         L0600         01/25 08.29           bitto         200.103.103.154         SALES AFENIN         01/20 68.28         01/23 08.29           pide         200.103.103.154         SALES AFENIN         01/70 68.27         L0600         01/25 08.29           pideb         200.103.103.154         SALES AFOR         01/70 100.0         01/25 08.29         01/25 08.29           pideb         200.103.103.154         SALES AFOR         01/70 100.0         01/25 08.29           pideb         200.103.103.154         SALES AFOR         01/70 107.25         L06000         01/25 08.29           pideb		200.103.103.141	EDOC/DTAY	01/01 00:00		01/25 08:29	
Jobg         20010310149         SALES-CUUG         01/25 08:23         L0600         01/25 08:23           Judi         20010310119         SALES-AGUL         01/25 08:23         L0600         01/25 08:23           Impin         20010310115         HR-WHCK         01/01 0000         01/25 08:30         01/25 08:30           Impin         20010310115         HE-WHCK         01/01 0000         01/25 08:30         01/25 08:30           Impin         20010310115         SALES-AFDUB         01/17 08:17         L0600         01/25 08:30           Impin         20010310115         SALES-AFDUB         01/17 08:17         L0600         01/25 08:23           Impin         20010310116         SALES-AFDUB         01/17 09:13         L0600         01/25 08:23           pdbb         20010310116         SALES-AFDUB         01/17 09:13         L0600         01/25 08:23           pdba         20010310116		200.103.103.142	SALES-CBR0	01/25 08:29	L0G00	01/25 08:29	
Jpgdie         200.103.103.105         SALES+6RALL         01/25 08:23         L0600         01/25 08:23           Jaal         200.103.103.15         SALES-ARALL         01/25 08:23         L0600         01/25 08:23           Implier         200.103.103.15         SALES+ARAL         01/25 08:23         L0600         01/25 08:23           Implier         200.103.103.15         SALES+ARL         01/25 08:23         L0600         01/25 08:23           Implier         200.103.103.154         SALES-TENIN         01/25 08:23         01/25 08:23           Implier         200.103.103.154         SALES-TENIN         01/17 08:07         L0600         01/25 08:23           Implier         200.103.103.154         SALES-MOINE         01/17 08:07         L0600         01/25 08:23           Implier         200.103.103.154         SALES-MOINE         01/17 09:07         L0600         01/25 08:23           Implier         200.103.103.154         SALES-MOINE         01/17 07:25         L0600         01/25 08:23           pdob         200.103.103.154         SALES-ARDIN         01/17 07:25         L0600         01/25 08:23           pdob         200.103.103.1154         SALES-ARDIN         01/17 09:25         L0600         01/25 08:23           pdob	1	200.103.103.144	ACCTING-SY8	01/01 00.00		01/25 08:30	
Juit         20010310151         SALES-AAL         01/25 09:29         L0600         01/25 09:29           1         20010310151         SALES-AAL         01/07 0902         L0500         01/25 09:29           htpun         20010310151         SALES-ABVELTANE         01/07 0902         L0500         01/25 09:29           htpun         20010310154         SALES-ABVELTANE         01/07 0902         L0500         01/25 09:29           make         20010310154         SALES-ABVELTANE         01/07 0902         L0500         01/25 09:29           make         20010310154         SALES-ABVER         01/17 0907         L0500         01/25 09:29           make         20010310151         SALES-ABVER         01/07 0927         L0500         01/25 09:29           pake         20010310151         SALES-AFD08         01/17 0927         L0500         01/25 09:29           pake         20010310161         SALES-AFD08         01/17 07:26         L0500         01/25 09:29           pake         20010310161         SALES-ABPLN         01/07 09:28         L0500         01/25 09:29           pake         20010310161         SALES-ABPLN         01/07 09:28         L0500         01/25 09:29           paken         20010310161	cdug	200.103.103.149	SALES-CDUG	01/25 08:29	LOGOD	01/25 08:29	
200.103.103         MARKET NAKE         01/01 00:00         E455         01/23 10:16           https://         200.103.103.153         SALES 1SFUN         01/25 08:28         L06000         01/25 08:28           200.103.103.103         SALES 1SFUN         01/25 08:28         L06000         01/25 08:28           pinds         200.103.103.105         TECH-KEUN         01/17 08:07         L0600         01/25 08:29           mobib         200.103.103.105         TECH-KEUN         01/17 08:07         L0600         01/25 08:29           addb         200.103.103.105         SALES 40/00 B         01/17 09:07         L0600         01/25 08:29           pddb         200.103.103.105         SALES 40/00 B         01/17 09:02         L0600         01/25 08:29           pddb         200.103.103.105         SALES 40/01         01/17 09:02         L05000         01/25 08:29           pddb         200.103.103.103         SALES 40/01         01/17 09:02         L05000         01/25 08:29           pddb         200.103.103.103         SALES 40/01         01/17 09:02         L05000         01/25 08:28           gdsa         200.103.103.103         SALES 48/01A         01/17 09:13         L05000         01/25 08:28           shann         200.103.103.	rgalle	200.103.103.150	SALES-RGALL	01/25 08.29	LOGOO	01/25 08:29	
Inguin         2001103101154         SALES-FSPUN         01/251023         10/251023           adv         2001103101154         FALHOX         01/010100         01/251023           jadin         2001103101156         FECH-4D0N         01/170807         L0G00         01/251023           jadin         2001103101156         FECH-4D0N         01/170807         L0G00         01/251023           jadin         2001103101156         FECH-4D0N         01/170807         L0G00         01/251023           jadin         2001103101165         SALES-MD01088         01/170267         L0G00         01/250023           jadin         200110310116         SALES-F000         01/170726         L0G000         01/250023           jadin         200110310116         SALES-AD010         01/170726         L0G000         01/250023           jadin         200110310116         SALES-AD10         01/170265         L0G000         01/250023           jadin         200110310310314         SALES-AB010         01/1702613         L0G000         01/250023           jadin         200110310310314         SALES-AB010         01/170613         L0G000         01/250828							
20010310185         HRHHCK         01/07 00:00         01/25 08:30           jmdn         2001031001155         TECH-JEDNN         01/17 09:07         L0G00         01/25 08:29           imdobb         2001031001155         TECH-JESNN         01/17 09:07         L0G00         01/25 08:29           i         200103100115         SALES-ADDEB         01/17 00:21         L0G00         01/25 08:29           j         2001031031015         SALES-ADDE         01/17 00:21         L0G00         01/25 08:29           j         200103103105         SALES-ADD         01/17 00:25         L0G00         01/25 08:29           j         200103103105         SALES-ADN         01/07 00:00         01/25 08:29           j         200103103116         SALES-ADN         01/07 00:00         01/25 08:29           j         200103103116         SALES-ADN         01/07 08:13         L0G00         01/25 08:28           j         gdm         20010310310314         SALES ADNA         01/25 08:28         L0G00         01/25 08:28	1	200.103.103.153	MARKET-MKE	01/01 00:00	E455	01/23 10:18	
jmdn         200 103 (103 196         TECH-JEDIN         01/7 (106 7)         L (160 0)         01/25 (102 3)           ubdb         200 103 (103 195         SALES APODE B         01/7 (106 2)         L (160 0)         01/25 (102 2)           jdbb         200 103 (103 195         SALES APODE B         01/7 (106 2)         L (160 0)         01/25 (102 2)           jdbb         200 103 (103 15         SALES APOL         01/01 (102 0)         01/25 (102 0)           jdbb         200 (103 (103 15         SALES APOL         01/01 (102 0)         01/25 (102 0)           jdba         200 (103 (103 16         SALES APOL         01/01 (100 0)         01/25 (102 0)           jdba         200 (103 (103 16)         SALES APOL         01/01 (102 0)         01/25 (102 0)           jdba         200 (103 (103 16)         SALES APOL         01/17 (106 13)         L (160 0)         01/25 (102 0)           jdba         200 (103 (103 103 16)         SALES APOL         01/17 (106 13)         L (160 0)         01/25 (102 0)		200.103.103.154		01/25 08:28	LOGOO	01/25 08:28	
mobile         200.103.102.157         SALES-MDUBB         01/17.08.21         L0G00         01/25.08.23           L         200.103.101.81         SALES-POLE         01/01.00.00         01/25.08.23           pdsb         200.103.103.101.51         SALES-POLE         01/01.00.00         01/25.08.23           gdsb         200.103.103.101.51         SALES-POLE         01/01.00.00         01/25.08.23           gdsb         200.103.103.101.51         SALES-POLE         01/01.00.00         01/25.08.23           gdsb         200.103.103.101.54         SALES-ADIL         01/17.06.13         L0.60.00         01/25.08.28           gdsb         200.103.103.101.54         SALES-ADIL         01/17.06.13         L0.60.00         01/25.08.28           gdsb         200.103.103.103.14         SALES-ADIL         01/27.08.28         L0.60.00         01/25.08.28		200.103.103.155		01/01 00:00		01/25 08:30	
200.103.103.159         S-MLES-OFL         01/07 0000         01/25 00.23           pdob         200.103.103.16         S-MLES-AFD00         01/17 07.25         L//0600         01/25 00.29           200.103.103.116         S-MLES-AFD         01/07 0000         01/25 00.29         01/25 00.29           gds         200.103.103.118         S-MLES-AFD         01/07 1000         01/25 00.29           gds         200.103.103.103.114         S-MLES-AGDIA         01/17 10613         L/// 6000         01/25 00:29           gds         200.103.103.103.114         S-MLES-AGDIA         01/17 10613         L/// 6000         01/25 00:29		200.103.103.156	TECH-JEDIN	01/17 09.07	LOGOO	01/25 08:29	
pdob         200.103.103.161         SALES-#C00         01/17.07.25         L.0.G00         01/25.00.29           pdia         200.103.103.162         SALES-#AM         01/01.00.00         07/25.00.29           pdia         200.103.103.163         SALES-GDIA         01/17.06.13         L.0.G00.0         01/25.00.28           pdia         200.103.103.103         SALES-GDIA         01/17.06.13         L.0.G00.0         01/25.00.28           pdiam         200.103.103.103.14         SALES-ABRUM         01/25.08.28         L.0.G00.0         01/25.00.28					LOGOD		
200.101101182         SALES-AAN         01/07 00:00         01/25 00:20           gdia         200.103.103.183         SALES-6DIA         01/17.061.3         LIGGOO         01/25 00:23           aham         200.103.103.103.148         SALES-ABNIN         01/25 00:28         LIGGOO         01/25 00:28		200.103.103.159					
gdia 200.103.103.163 SALES-GDIA 01/17.08.13 L.0.GOO 01/25.08.28 abrun 200.103.103.164 SALES-ABRUN 01/25.08.28 L.0.GOO 01/25.08.28					L0600		
abrun 200.103.103.164 SALES-ABRUN 01/25.08.28 L.0.G.0.0 01/25.08.28				01/01 00:00			
	gdia	200.103.103.163	SALES-GDIA	01/17 06:13			
200 100 100 100 I DUIDA 01 01 00 00 01 01 05 00 00	abrun	200.103.103.164	SALES-ABRUN	01/25 08:28	LOGOO	01/25 08:28	
	1	200.103.103.165	ADMIN-DHDA	01/01 00.00		01/25 08:29	

Fig. A-16 Primary AD Agent console, Session tab



**NOTE**: The Sessions tab does not display on machines configured to run AD Agent in the satellite role.

In this tab the session table displays, comprised of rows of end user login/logout activity records retrieved by probes set up on all servers (primary and satellite) running the AD Agent. For each row in this table, information is included in the following columns:

- User User profile icon and user name set up on the Windows server, or machine icon and no user name if a user was not detected at the designated workstation.
- IP Address IP address of the workstation.
- Workstation Network name of the workstation.

- Login Date and time the end user last logged in (using the MM/YY HH:MM military time format). If 01/01 00:00 displays, the end user has not logged on at that workstation since the AD Agent service was installed on the network.
- Error If an error code displays, see Troubleshooting at http://www.8e6.com/r3000help/adagent/ 6troubleshoot.html for a list of probe error codes and their corresponding issues.
- Domain Name of the domain to which the user account belongs.
- Verified Date and time (using the MM/YY HH:MM military time format) when the workstation's status was last verified.

The following actions can be performed in the Sessions tab:

- Sort session table data Click a column header to sort all rows in the table in descending order by that column. Click the column header again to resort all rows in the table in ascending order by that column.
- View/download the session table in the Excel spreadsheet format - Click the View as spreadsheet button to launch a spreadsheet in Microsoft Excel containing the contents of the session table, plus additional columns of data (see Session table spreadsheet).
- View Properties of an end user's record The Sessions Properties window shows detailed information about a record in the session table, and is accessible by clicking the Properties button, or double-clicking or right-clicking the end user's record (see Session Properties window).
- Probe a workstation The Workstation Interactive Probe window provides tools to probe a workstation on demand, and is accessible by clicking the Probe workstation button, or right-clicking the end user's record (see Workstation Interactive Probe window).

 View/modify primary AD Agent configuration, stop/start AD Agent service - Click the **Configuration** button to open a pop-up window containing AD Agent configuration tools and configured settings (see Active Directory Agent Configuration window).

#### Session table spreadsheet

The session table spreadsheet contains the contents of the current session table plus these additional columns of data: Record Type; Logged in ("Y" or "N"); Login type ("Interactive" if the end user is logged in and detected by the probe, or "Unknown" if the end user is not logged in or is undetected by the probe); Last update date and Verified time (each using the YYYY-MM-DD HH:MM:SS military time format), Update source (type of probe used), and Quality of the data source (percentage).

## **Session Properties window**

- 1. To view detailed information about a record in the session table, do one of the following:
  - Double-click the record in the session table to open the Session Properties pop-up window

or

 Click the record in the session table, and then click the Properties button to open the Session Properties popup window

or

• Right-click the record in the session table, and then select Properties from the pop-up menu to open the Session Properties pop-up window:

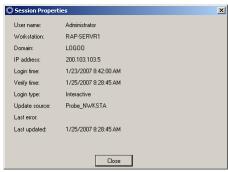


Fig. A-17 Session Properties window

This pop-up window contains the following information: User name; Workstation name; Domain name; IP address; Login time and Verify time (each using the M/ D/YYYY H:M:SS AM/PM format); Login type ("Interactive" if the user is logged in and detected by the probe, "Unknown" if the user is not logged in or is undetected by the probe); Update source (type of probe used); Last error (an error code displays if the probe failed to successfully identify the end user); Last updated (shows the time data last changed for the end user's workstation, using the M/D/YYYY H:M:SS AM/PM format).

2. After viewing the contents of this pop-up window, click **Close** to close the window.

#### Workstation Interactive Probe window

- 1. To access tools to probe a workstation on demand, do one of the following:
  - Click the record in the session table, and then click the Probe workstation button to open the Workstation Interactive Probe pop-up window

or

 Right-click the record in the session table, and then select Probe Workstation from the pop-up menu to open the Workstation Interactive Probe pop-up window:

ΙP	Address:	200.103.103.5	Nwksta P	robe WN	1I Probe		Clear log	>	Close 🗸					
01	4	In-memory session	on table rec	ord for this	workstati	on: U:LO	GOO\Admin	nistrator . I	P:200.103.	103.5 . W:I	RAP-SER	/R1 .	LU:01/2	5 23:4
01 01	4	Extended attribu NwstaProbe	tes: s=Prob 16				l dministrator .	IP:200.1	03.103.5.3		BVB1 J	LU:01/2	25 23:40	:38Z
01	4	NwkstaProbe	15	User lo	gin re-cont	irmed for	logoo\admi	nistrator a	at 200.10.10	1.101				
'robe !00		l, result=200 ss: @ISE.1.13	200.10	101.101	BAP-SI	BVB1	Adminis	trator	LOGOO	Y	Unknow	n 2007-	01-26-18	348-3
01	4	In-memory session	on table rec	ord for this	workstati	n: U:LO	GOO/Admir							
01 01	4	Extended attribu WmiProbe	tes: s=Prob 15				l chine 200.1	03 103 5						
0.		1000	10	ortannig	, min pros		011110 200.1	00.100.0						
														l i
														Þ

Fig. A-18 Workstation Interactive Probe window

The IP Address of the workstation displays above the blank screen, along with the following buttons: Nwksta Probe, WMI Probe, Clear log, X Close.

Beneath the blank screen, the following information displays: User domain name and username, Workstation name.

- 2. Click either of the probe buttons to activate the probe search on demand:
  - **Nwksta Probe** this is the default probe used for identifying workstations. This probe requires the user's domain account to have administrator permissions on the workstation if running on a Windows 2000 Professional operating system.
  - WMI Probe this probe is disabled by default and can be enabled via the Options page in the Active Directory Agent Configuration window. This probe (which takes longer to identify an end user) requires the dcagent\_service account to be a Domain Admins group member.



**NOTE**: An error code displays in the probe results if the probe fails to run successfully. Consult the list of troubleshooting codes for more information about the error.



TIP: Click Clear log to clear the screen of probe results.

3. After performing the necessary actions in this window, click **X Close** to close the window.

# Active Directory Agent Configuration window

The Active Directory Agent Configuration window lets you modify settings for the AD Agent team, if there are changes to the AD Agent setup or to the R3000 on your network. For satellite hosts, most of this information can only be viewed on the pages in this window, but the role of the AD Agent can be changed from satellite to primary, and the service also can be stopped or started.

 Click Configuration on either the Session tab or Activity tab to open the Active Directory Agent Configuration window:

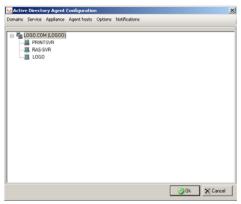


Fig. A-19 Primary host Configuration, Domains

The Domains button displays by default, showing the selection of Active Directory domains and domain controllers on your network.

- 2. Click any of the following buttons to go to the page of your selection:
  - **Service** used for viewing/modifying the status of the service, or stopping/starting the service.
  - **Appliance** used for specifying R3000 transmission criteria on the primary host, or for viewing this information on a satellite host.

- Agent hosts used for specifying the role (primary or satellite) the AD Agent will play on the current machine being configured.
- Options used for specifying configuration options for the primary host, or for viewing this information on a satellite host.
- **Notifications** used for setting up email criteria for the administrator of the primary host to be notified in the event of a critical system error, or for viewing this information on a satellite host.

**NOTES**: The Ok and Cancel buttons at the bottom of this window are deactivated by default and become activated if entries are made in any of the pages.

For satellite hosts, fields in all pages display greyed-out. The following message displays at the bottom of the window on all pages except the Service page: "These settings cannot be modified because the service mode for this machine is set to 'satellite'. The primary server (server name) can be used to make teamwide configuration".

 After making all configuration edits, click Ok to save your settings, close the Active Directory Agent Configuration window, and to restart the AD Agent.

**NOTE**: For existing satellites, changes made to the Agent team are automatically distributed, and satellite services automatically restarted.

## Service page

1. Click Service to display the Service page:

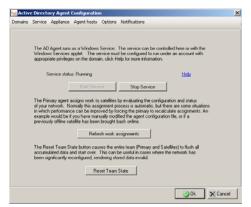


Fig. A-20 Primary host Configuration, Service

The Server status displays to indicate the status of AD Agent on the current machine: Running, StopPending, Stop, StartPending.

- 2. Perform any of the following actions:
  - **Start Service** This button is activated if the AD Agent service is not running. Clicking this button begins running the AD Agent service.
  - **Stop Service** This button is activated if the AD Agent service is running. Clicking this button stops running the AD Agent service.
  - **Refresh work assignments** This button is activated if the AD Agent service is running on the primary host. Clicking this button forces the primary Agent to recalculate the delegation of work assignments to all satellite hosts.

• Reset Team State - This button is activated if the AD Agent service is running on the primary host. Clicking this button flushes all accumulated session data for the entire team (primary and satellite hosts), except the configuration file, and newly rebuilds all data.

## Appliance page

1. Click Appliance to display the Appliance page:

Domains	Service Appliance Agent hosts Op	otions Notifications	
	The primary AD Agent sends user w filter appliance. This information is re with the appliance.		
	F Enable transmissions	to this appliance.	Help
	Appliance address:	200.10.100.23	
	Port	26267	
	Appliance passphrase:		
	(Repeat passphrase):	1000000	
	Descriptive name:	Filter #1	
	Normally the AD Agent sends small only new uses sessions. In some ci on the filter appliance), it can be use Re	sees (such as when maintenan	
			30k X Cancel

Fig. A-21 Primary host Configuration, Appliance

By default, the fields in this page are populated with entries made during the configuration wizard setup process. If necessary, changes can be made to any of these fields for the primary host.

- 2. If necessary, click the following objects on a primary host to perform the specified actions:
  - "Enable transmissions to this appliance" De-select this option if the R3000 should not be receiving data from the primary host.
  - **Resend all data** Click this button to resend the entire session table from the primary host to the R3000.

TIP: View the Activity log for transmission results.

# Agent hosts page

1. Click Agent Hosts to display the Agent hosts page:

omains	e Directory Agent Co Service Appliance A	-	ptions Notifi	cations	
	only one AD Agent se	e designated as plex configuration omains or lorest Prim	work, it should the primary ar ons, including s, etc., click H	d be the prin nd the other networks w	elike" toka. If you have any, II you have multiple a should be added For ath multiple likening Histo
	AD Agent servers:	Bala	Stature		
	AD Agent servers: Machine JSMITH23	Primary	Status		Add
	Machine JSMITH23 PJOHNSON54	Primary Satellite	Online Online		Add Remove
	Machine JSMITH23	Primary	Online		Remove
	Machine JSMITH23 PJOHNSON54	Primary Satellite	Online Online		Remove Configuration
	Machine JSMITH23 PJOHNSON54	Primary Satellite	Online Online		Remove
	Machine JSMITH23 PJOHNSON54	Primary Satellite	Online Online		Remove Configuration
	Machine JSMITH23 PJOHNSON54	Primary Satellite	Online Online		Remove Configuration
	Machine JSMITH23 PJOHNSON54	Primary Satellite	Online Online		Remove Configuration

Fig. A-22 Primary host Configuration, Agent hosts

By default, the fields in this page are populated with entries made during the configuration wizard setup process. The Role field displays the function of the AD Agent ("Primary" or "Satellite") on the current server. The Primary server field displays the name of the primary server—greyed-out on servers functioning as the primary host.

The AD Agent servers list box includes all AD Agent hosts that have been manually added to the list box on the primary server. This list box displays greyed-out on servers functioning as satellite hosts.

- 2. The following buttons are activated in the specified scenarios:
  - Add On a primary host server, clicking this button opens a dialog box in which a new satellite is set up and added to the list box.
  - **Remove** On a primary host server, selecting a satellite in the AD Agent servers list box and clicking this activated button removes the satellite from the list box.

- Configuration On a primary host server, selecting a satellite in the AD Agent servers list box and clicking this activated button opens a dialog box in which servers and/or workstations to be scanned by the satellite are specified.
- **Status** Selecting an AD Agent in the list box and clicking this button opens a pop-up window showing the current workload on the specified machine running the AD Agent.

#### Add a satellite

On a primary host server:

1. Click Add to open the Add New Satellite pop-up window:

Ad	ld New Satellite
	Enter the name of the satellite machine to be added to the team. Any Windows XP, 2000, or 2003 machine can be used as a satellite.
	Satellite machines perform network scanning tasks assigned to them by the primary machine.
	You must also install the AD Agent software on the satellite machine.
	Machine name:
	Ok. Cancel
_	

Fig. A-23 Add New Satellite

- 2. Enter the **Machine name** of the Windows 2000/2003/XP machine that will function as a satellite.
- 3. Click **Ok** to accept your entry and to close the dialog box and to add your entry in the AD Agent servers list box.

#### Remove a satellite

On a primary host server:

- 1. Select the satellite Machine in the AD Agent servers list box.
- 2. Click **Remove** to remove the satellite from the list box.

#### Configure a satellite

On a primary host server:

- 1. Select the satellite Machine in the AD Agent servers list box.
- 2. Click **Configuration** to open the Satellite Agent Configuration dialog box:

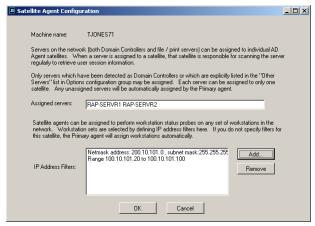


Fig. A-24 Satellite Agent Configuration

The names of Assigned servers and IP Address Filters previously entered in this dialog box display, indicating the servers and/or machines this satellite has been manually assigned to scan. If entries are not made here, the primary host will automatically assign servers/ machines for this satellite to scan.

- 3. If the satellite being added will be assigned specific servers and/or machines to scan, enter that criteria:
  - If the satellite will be manually assigned one or more specific servers to scan, enter the name(s) in the Assigned servers field, leaving a space between each server name.

If the satellite will not be manually assigned any machines on the network to scan, click **OK** to close the dialog box and to display any entries (if made) in the Assigned servers field of the Satellite Agent Configuration dialog box.

 If the satellite will be manually assigned one or more machines to scan on the network, click Add to open the IP Filter Properties dialog box:



Fig. A-25 IP Filter Properties dialog box, Netmask

- 4. In the IP Filter Properties dialog box, go to **Filter type** and specify whether a subnet or IP address range will be used as criteria for determining which machines to scan:
  - To specify a subnet to scan, choose the default "Netmask" and make the following entries:
    - a. Enter the Network address.
    - b. Enter the Subnet mask.
    - c. Click **OK** to close the dialog box and to display your entries in the IP Address Filters list box of the Satellite Agent Configuration dialog box.
  - To specify an IP address range to scan, choose "Range" and make the following entries:

IP Filter Properties			
subnet mask, whi	le a Range filter spe	ers: a Netmask filter spec cifies lower and upper IP teria will be assigned to th	
Filter type:	○ Netmask ⓒ Range	Lowest IP address: Highest IP address:	100.10.101.20
	OK	Cancel	]

Fig. A-26 IP Filter Properties dialog box, Range

- a. Enter the Lowest IP address in the range.
- b. Enter the Highest IP address in the range.
- c. Click **OK** to close the dialog box and to display your entries in the IP Address Filters list box of the Satellite Agent Configuration dialog box.
- 5. In the Satellite Agent Configuration dialog box, click **OK** to close the dialog box.

#### Check the status of a satellite

To check a specific host's current workload—to determine whether or not the workload needs to be redistributed:

- 1. Select the Machine in the AD Agent servers list box.
- 2. Click Status to open the Status Detail window:

Period model         Verkitations         Avg. guesse age         Memory and         CPU used         Verkity count         Threads         Sources           13:00         26         0.38         38,2 Mb         101%         21         91         NetocryNotState MemoryNotState Mem	
12:50         26         0.24         38.2 Mb         10.6%         21         91         MonitoProState NetsonWork5lask,           12:40         26         0.43         38.2 Mb         9.6%         21         91         MonitoProState, NetsonWork5lask,           12:30         26         4.20         38.2 Mb         10.1%         21         91         MonitoProState, NetsonWork5lask,           12:30         26         4.20         38.2 Mb         10.1%         21         91         MonitoProState, NetsonWork5lask,           12:20         26         0.41         38.2 Mb         10.4%         21         91         MonitoProState, NetsonWork5lask,           12:10         26         0.44         38.2 Mb         10.1%         21         91         CollectoProState, NetsonWork5lask,           12:00         26         0.44         38.2 Mb         10.1%         21         91         CollectoProState, NetsonWork5lask,           12:00         26         0.45         38.2 Mb         10.1%         21         91         MonitoProState, NetsonWork5lask,           11:50         26         12.36         38.2 Mb         0.3%         6         91         MonitoProState, NetsonWork5lask,           11:30         6	
12:40         26         0.43         38:2 Mb         9.6%         21         91         MonitoProcState CelectoProcState N           12:30         26         4:20         38:2 Mb         10.1%         21         91         MonitoProcState Networkholdstate	
12:30         26         4:20         38:2 Mb         10.1%         21         91         MonitoProcState NetcanVichState X           12:20         26         0.41         38:2 Mb         10.4%         21         91         MonitoProcState NetcanVichState X           12:10         26         0.44         38:2 Mb         10.1%         21         91         CollectoProcState NetcanVichState X           12:00         26         0.44         38:2 Mb         10.1%         21         91         CollectoProcState NetcanVichState X           12:00         26         0.45         38:2 Mb         10.1%         21         91         CollectoProcState NetcanVichState X           11:50         26         12:36         38:2 Mb         0.3%         6         91         MonitoProcState NetcanVichState X           11:30         65         21:3         28:2 Mb         93%         54         75         MonitoProcState NetcanVichState X	
12.20         26         0.41         38.2 Mb         10.42         21         91         MonitoProcState CollectoProcState NetsonWorkState           12.10         26         0.44         38.2 Mb         10.12         21         91         CollectoProcState NetsonWorkState           12.00         26         0.45         38.2 Mb         9.13         21         91         MonitoProcState NetsonWorkState           11.00         26         0.45         38.2 Mb         9.13         21         91         MonitoProcState NetsonWorkState           11.50         26         12.36         38.2 Mb         0.03         6         91         MonitoProcState NetsonWorkState           11.30         65         21.3         28.2 Mb         9.33         54         75         MonitoProcState NetsonWorkState	
12:10         26         0.44         38.2 Mb         10.1%         21         91         CollectorProcNatil: Netician/VorkState: Netician/V	s,NetscanP
12:00         26         0.45         38.2 Mb         9.1%         21         91         MonitorProcState/NetscarWorkState,           11:50         26         12.96         38.2 Mb         0.0%         6         91         MonitorProcState/NetscarWorkState,           11:30         65         21.3         28.2 Mb         9.3%         54         75         MonitorProcState/NetscarWorkState,	NetscanW
11:50         26         12:36         38.2 Mb         0.0%         6         91         MonitorProcStats, NetscanWorkStats, 1           11:30         65         2:13         28.2 Mb         9.3%         54         75         MonitorProcStats, NetscanProcStats, Netscan	ats,MonitorF
11:30 65 2:13 28.2 Mb 9.3% 54 75 MonitorProcStats,NetscanProcStats,N	s,CollectorF
	s,NetscanF
11:20 65 2:10 28.2 Mb 54 75 MonitorProcStats,NetscanProcStats,N	NetscanW
	NetscanW

Fig. A-27 Status Detail

The Machine name of the AD Agent host displays, along with the Role of the server ("Primary" or "Satellite"), and the Last status update (using the M/D/YYYY H:M:S AM/ PM format).

The following columns of information display for each record in the table:

- Period end the time period (using the HH:MM military time format) of each 10-minute interval in which servers/machines were scanned. The most recent 10-minute interval displays as the first record among the rows of records.
- Workstations the number of workstations included in the local session table for this host during the specified time period.
- Avg. queue age the average amount of time it took to probe a workstation (using the M:S time format) during the specified time period. If using the default fiveminute interval (specified in the Options page), any interval of time greater than the amount shown in this column may signify a problem in probing some workstations on the network.
- Memory used the amount of memory used by the host during the specified time period.
- CPU used the average percentage of CPU used by the host during the specified time period.
- Verify count the number of workstations verified by the probe scan for the specified time period. If this count is lower than the number of Workstations probed, the amount shown in this column may signify a problem in verifying some workstations on the network.
- Threads the number of units comprising the workload for the specified time period. An unusually high number of threads may indicate a problem with the workload for the host.
- Sources a list of the modules that reported during the specified time period in which data was obtained.
- 3. Click **Close** to close this window.

# Options page

On a primary host server:

1. Click **Options** to display the Options page:

🍋 Activ	e Directo	ory Agent (	Configuratio	n				
Domains	Service	Appliance	Agent hosts	Options	Notifications			
	When th to "catch	e agent start	ts up, it perforr current state of	ns a scan-	back of recent e	detect user logins. vent log history nit how far back in tir	ne this	
	Maximum	event log hi	istory scan-ba	sk: 72	hours.			
	and dete workstat	ct logoffs. on when bol	The agent au	tomatically I. WMI pro	selects the best obes are disable	on to verify the curren probe type for each d if the dcagent_serv		
		Enable	WMI workstat	ion probes	t.			
		🔽 Enable	NetWkstaUse	rEnum wo	rkstation probes			
		Minimum pro	obe interval:	5 mir	nutes.			
	known u	ser when a p	probe fails to fi	nd the wor		itomatically logs off t e this option if the I auto-logoffs:	ne last	
		Auto-log	goff unrespons	ive workst	tations			
	workstati	ons which ar				n these to discover domain controllers.	Jse	
	Other se	vers:	RAP-SERVF	1 RAP-SE	RVR2 PRINTS	/R1 PRINTSVR2		
							Ok	🗙 Cancel

Fig. A-28 Primary host Configuration, Options

- 2. Modify entries or make selections in this page as pertinent to your AD Agent setup:
  - Maximum event log history scan-back: By default, 72 hours displays as the number of hours of activity for scanning all domain controllers and including this information in the newly-built activity log. The entry in this field applies only to scenarios in which the AD Agent console opens for the first time, or when the AD Agent's state has been reset to purge all current data and new data is needed to rebuild the activity log (see Reset Team State option in the Service page).
  - "Enable WMI workstation probes": By default, this probe process is not selected to run.



**NOTE**: In order to use this probe, the dcagent\_service account must be a Domain Admins group member.

- "Enable NetWkstaUserEnum workstation probes": By default, this probe process is selected to run.
- **Minimum probe interval**: By default, *5* minutes displays as the interval of time in which the selected probe type(s) will probe workstations.
- "Auto-logoff unresponsive workstations": By default, this checkbox is checked, indicating that any workstation a probe fails to find will be automatically logged off in the activity log.
- **Other servers**: By default, this field is blank. If there are servers to be probed on the network, enter the host names of all servers, including a space between each name. Any server listed in this field will be assigned a host—unless a satellite host has already been assigned using the Satellite Agent Configuration dialog box, accessible via the Agent hosts page.

**NOTE**: Domain controllers should **not** be added to the Other servers list.

#### Notifications page

On a primary host server:

1. Click **Notifications** to display the Notifications page:

ee Activ	e Directo	ory Agent	Configuratio	n			>
Domains	Service	Appliance	Agent hosts	Options	Notifications		
		you des system configu	ignate. Notifica	ations are ; ecify the r	otifications to an administrato generated in response to ser ecipient and SMTP mail serv	ious	
			Recipient emai		jsmith23@logo.com	_	
			SMTP server:	addroot.	LOGO	_	
			Port:		25		
			Sender email a	ddress:	dcagent_service@logo.c	com	
			[	Send to	est message		
						ØDk	X Cancel

Fig. A-29 Primary host Configuration, Notifications

- 2. If using an SMTP server, enter the following criteria to specify the email address to be used in the event of a critical system error:
  - "Enable e-mail notifications" Click this checkbox to activate the fields in this page.
  - Recipient email address Enter the email address of the recipient of server error messages.
  - **SMTP server** Enter the IP address of the SMTP server.
  - **Port** By default, *25* displays as the port number used for sending email. This port number should be changed if the sending mail connection fails.
  - Sender email address Enter the email address of the server sending the email message.

3. Click Send test message to test the email setup connection. Make any necessary modifications to your entries if the sending mail connection fails.

**& NOTE**: The primary AD Agent sends an alert email message each day to the administrator's email address designated in this page. This email message includes all alert messages for that day.

# APPENDIX B: DISABLE SMB SIGNING REQUIREMENTS

SMB Signing is a Windows security feature that is not currently supported by the R3000. If you are running a Windows 2000 or Windows 2003 server and are using NTLM, then you need to make SMB Signing "not required."

# **SMB Signing Compatibility**

Server	R3000 Auth Mode	SMB Signing Enabled	SMB Signing Disabled	SMB Signing Not Defined
Win2000 mixed	NT Tier 1, 2, 3	Not compatible	Compatible	Compatible
Win2000 native	NT Tier 1, 2, 3	Not compatible	Not compatible	Not compatible
Win2003 mixed	NT Tier 1, 2, 3	Not compatible	Compatible	Not compatible
Win2003 native	NT Tier 1, 2, 3	Not compatible	Not compatible	Not compatible
Win2000 mixed	LDAP Tier 1, 2, 3	Compatible	Compatible	Compatible
Win2000 native	LDAP Tier 1, 2, 3	Compatible	Compatible	Compatible
Win2003 mixed	LDAP Tier 1, 2, 3	Compatible	Compatible	Compatible
Win2003 native	LDAP Tier 1, 2, 3	Compatible	Compatible	Compatible

To find out whether SMB Signing on your Windows server is compatible with the R3000, refer to the chart below:

# **Disable SMB Signing in Windows 2003**

By default, the SMB protocol in Windows 2003 is set to "Not Defined = On". To disable (turn "Off") SMB Signing, do the following:

 From your Windows 2003 workstation, go to Start > All Programs > Administrative Tools > Active Directory Users and Computers:



Fig. B-1 Go to Active Directory Users and Computers

2. When the Active Directory Users and Computers window opens, click Domain Controllers in the left panel to open the pop-up menu:

🐗 Active Directory l	Users and Comp	uters			_ 🗆 🗡
Ile Action Vie	w <u>W</u> indow <u>H</u> e	эlp			_ <b>8</b> ×
← → 1 1	% 💼 🛛 🗙 🖻	12 🗟 😫 🦉	1 🖉 💩 💎 🍕 🛅		
Active Directory Use	ers and Computer:	Domain Controllers	1 objects		
			Туре	Description	
QCAD.local     QCAD.local     QCAD.local     Q     Dombin Conductor     Q     Domain Conductor     Q     Domain Conductor     Q     QCTESTOL     Q     Users	Delegate Contro Find New All Tasks View New Window fro	> > >	Computer		
Opens property sheet I	Refresh Export List			1	
poporto property project	Properties			1	
	Help				

Fig. B-2 Select Properties in the Domain Controllers pop-up menu

3. Select Properties to open the Domain Controllers Properties dialog box:

Domain Controllers Properties		? ×
General Managed By COM+ Group Policy		
Current Group Policy Object Links for	r Domain Contr	ollers
Group Policy Object Links	No Override	Disabled
S Default Domain Controllers Policy		
Group Policy Objects higher in the list have the h This list obtained from: tyudt.QCAD.local	ighest priority.	
New Add Edit		Цр
DptionsDeleteProperties		Do <u>w</u> n
Block Policy inheritance		
OK	Cancel	Apply

Fig. B-3 Domain Controllers Properties

4. Click the Group Policy tab, choose the Default Domain Controllers Policy, and then click **Edit** to open the Group Policy Object Editor window:

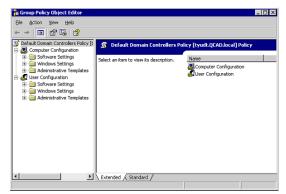


Fig. B-4 Group Policy Object Editor window

5. In the left panel, go to the Computer Configuration branch of the tree and select the Windows Settings folder to display the Windows Settings contents in the right panel:

The Group Policy Object Editor E/e Action Yew Help ↔ → € 00 13 13 12		
Default Domain Controllers Policy [tyudt.QCAD.local] Policy     Computer Configuration     Gonguter Configuration     Gongut	Windows Settings Select an Rem to view Rs description.  Extended / Standard /	Name Scripts (Startup/Shutdown) Security Settings

Fig. B-5 Group Policy Object Editor window, Windows Settings

6. Choose Security Settings to display the contents of this folder in the right panel:

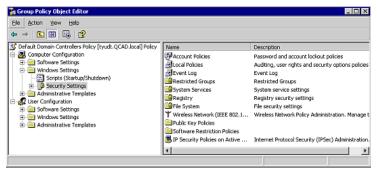


Fig. B-6 Group Policy Object Editor window, Security Settings

7. Select Local Policies to display the contents of this folder in the right panel:

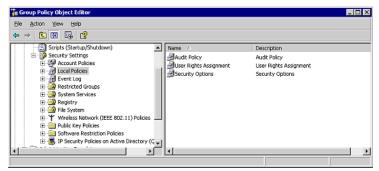


Fig. B-7 Group Policy Object Editor window, Local Policies

8. Select Security Options to display the contents of this folder in the right panel:

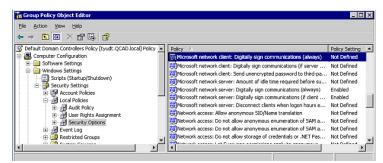


Fig. B-8 Group Policy Object Editor window, Security Options

Scroll down and find "Microsoft network client: Digitally sign communications (always)".

9. Right-click this item to open the pop-up menu, and select Properties to open the dialog box with the Security Policy Setting tab:

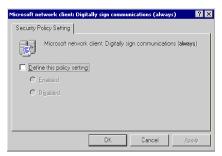


Fig. B-9 Define this policy setting

Click in the "Define this policy setting" checkbox to activate the radio buttons. Choose "Diabled", and then click **OK**.

- 10.Go back to the Group Policy Object Editor window (see Fig. B-8) and find the policies for the following items:
  - Microsoft network server: Digitally sign communications (always)
  - Domain controller: LDAP server signing requirements
  - Domain controller: LDAP client signing requirements

For each of these items, follow the instructions in step 9.

# APPENDIX C: OBTAIN, EXPORT AN SSL CERTIFICATE

When using Web-based authentication, the LDAP server's SSL certificate needs to be exported and saved to the hard drive, then uploaded to the R3000 so that the R3000 will recognize LDAP server as a trusted source.

This appendix provides steps on exporting an SSL certificate from a Microsoft Active Directory or Novell server—the most common types of LDAP servers. Also included is information on obtaining a Sun ONE server's SSL certificate.

# **Export an Active Directory SSL Certificate**

# Verify certificate authority has been installed

 From the console of the LDAP server, go to Start > Programs > Administrative Tools > Certification Authority to open the Certification Authority window:

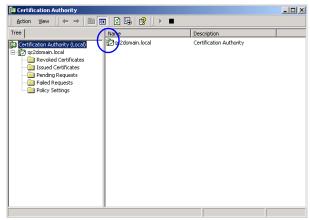


Fig. C-1 Certfication Authority window

 Verify that the certificate authority has been installed on this server and is up and running—indicated by a green check mark on the server icon (see circled item in Fig. C-1).

# Locate Certificates folder

 Go to Start > Run to open the Run dialog box. In the Open field, type in mmc.exe to specify that you wish to access the Microsoft Management Console:

Run	? ×
5	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	mmc.exe
	OK Cancel Browse

Fig. C-2 Run dialog box

2. Click **OK** to open the Console window:

<u>C</u> onsole <u>W</u> indow <u>H</u> elp			
Console Root			
Action View Eavorites			
Tree Favorites	Name		
Console Root			
		11.	

Fig. C-3 Microsoft Console window

3. From the toolbar, click Console to open the pop-up menu. Select Add/Remove Snap-in to open the Add/ Remove Snap-in dialog box:

Add/Remove Snap-in	? ×
Standalone Extensions	
Use this page to add or remove a standalone Snap-in from the console.	
Snap-ins added to: Console Root	
Description	-1
Add Remove About	
OK C4	ancel

Fig. C-4 Add/Remove Snap-in

4. Click **Add** to open the Add Standalone Snap-in dialog box:

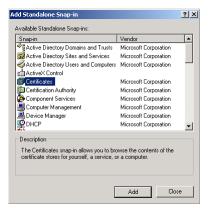


Fig. C-5 Add Standalone Snap-in

5. Select Certificates, and click **Add** to open the Certificates snap-in wizard dialog box:

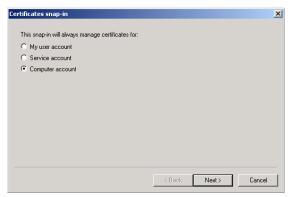


Fig. C-6 Certificates snap-in dialog box

6. Choose "Computer account", and click **Next** to go to the Select Computer wizard page:

Select Computer	x
Select the computer you want this Snap-in to manage.	
This snap-in will always manage:	
Cocal computer: (the computer this console is running on)	
C Another computer: Browse	
Allow the selected computer to be changed when launching from the command line. This only applies if you save the console.	
< Back Finish Cancel	

Fig. C-7 Select Computer dialog box

- 7. Choose "Local computer: (the computer this console is running on)", and click **Finish** to close the wizard dialog box.
- Click Close to close the Add Standalone Snap-in dialog box. Click OK to close the Add/Remove Snap-in dialog box.

Notice that the snap-in has now been added to the Console Root folder:

🖆 Console Window Help			] 🗋 🚅 🖬 🔟 💷	9)×
Action Yew Envorites	) 📧 🗈 🕼 😭			
ree Favorites	Issued To /	Issued By	Expiration Date	1
	⊡ 2000eserver ac3dman.iocal ⊇ qc2doman.iocal	gc2doman.local gc2doman.local	6,77,2006 6,77,2024	
( ) ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	4			

Fig. C-8 Console Root with snap-in

# Export the master certificate for the domain

- 1. Go to the right panel of the Console and select the master certificate for the domain that you just added.
- Right-click the certificate to open the pop-up menu, and select All Tasks > Export:

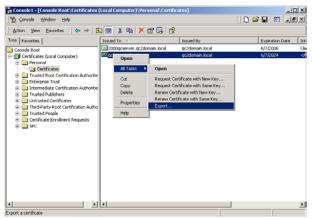


Fig. C-9 Select the certificate to be exported

This action launches the Certificate Export Wizard:



Fig. C-10 Certificate Export Wizard

3. Click **Next** to go to the Export Private Key page of the wizard:



Fig. C-11 Export Private Key

4. Select "No, do not export the private key", and click **Next** to go to the Export File Format page of the wizard:

ificate Export Wizard	
Export File Format Certificates can be exported in a variety of f	ile formats.
Select the format you want to use:	
C DER encoded binary X.509 (.CER)	
<ul> <li>Base-64 encoded X.509 (.CER)</li> </ul>	
C Cryptographic Message Syntax Stand	dard - PKCS #7 Certificates (.P7B)
Include all certificates in the certificates	ication path if possible
C Personal Information Exchange - PKC	5 #12 (.PFX)
Include all certificates in the certificates	ication path if possible
Enable strong protection (require	s IE 5.0, NT 4.0 SP4 or above)
Delete the private key if the exposit	rt is successful
	<back next=""> Cancel</back>

Fig. C-12 Export File Format

5. Select "Base-64 encoded X.509 (.CER)" and click **Next** to go to the File to Export page of the wizard:

ificate Export Wizard ile to Export	
Specify the name of the file you	u want to export
File name:	
E:\domain.cer	Browse
,	
	and the second
	< Back Next > Cano

Fig. C-13 File to Export

 Enter the File name of the file to be exported, followed by the .cer extension. Click Next to go to the final page of the wizard:

Certificate Export Wizard		X
	Completing the Certificate Export Wizard You have successfully completed the Certificate Export witard. You have specified the following settings:	t
	File Name E:\dom No Export Keys No Include al certificates in the certification path No File Format Base64	
	< Back Finish Can	el

Fig. C-14 Settings

- 7. Notice that the specified settings display in the list box, indicating the certificate has been successfully copied from the console to your disk. Click **Finish** to close the wizard dialog box.
- 8. Close the Console.

The certificate can now be uploaded to the R3000.

# **Export a Novell SSL Certficate**

1. From the console of the LDAP server, go to the tree in the left panel and open the Security folder to display the contents in the Console View (right panel):



Fig. C-15 Novell Console window

2. Find the tree's folder and right-click it to open the pop-up menu. Select Properties to open the Properties dialog box:

6		Properties of QCTITEE CA			
General Certificate Self Signed	es . d Certificate	NDS Rights - Other Rights to Files and Folders			
Subject name:	Provide a strand strand	nizational CA.0=QC-TREE			
Issuer name:	Concernance of the second	nizational CA.0=QC-TREE			
Effective date:	Providence of the second secon	V 12, 2004 9:31:31 AM PDT			
Expiration date:	July 12, 20	JULY 12, 2014 9:31:31 AM PDT			
		Details Export Replace			
Page Options		OK Cancel Apply Help			

Fig. C-16 Properties dialog box

- 3. Click the Certificates tab to go to the Self Signed Certificate page.
- 4. Click **Export** to open the Export A Certificate pop-up window:

Specify an output form Output format	at for the certificate.	
File in binary l File in Base64		
	root/SelfSignedCert.der	i.

Fig. C-17 Export A Certificate pop-up window

- 5. Select "File in binary DER format" for the Output format. The path of the certificate displays in the Filename field.
- 6. Click **Export** to open another pop-up window that asks where you would like to save the certificate—the most convenient place would be your desktop.

The certificate can now be uploaded to the R3000.

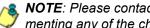
# **Obtain a Sun ONE SSL Certificate**

Unlike Microsoft or Novell, the Sun ONE LDAP directory does not have a tool for exporting an SSL certificate once it has been imported to the LDAP server.

Therefore, a copy of the root certificate—in the .cer or .der format—that was used to sign the LDAP server's certificate must be uploaded to the R3000. This certificate can be an internally generated root certificate (if you have a certificate authority to generate the certificate), or can be the root certificate used by the external signing authority.

# **APPENDIX D: LDAP SERVER CUSTOMIZATIONS**

The R3000 has been tested on common types of standard LDAP servers with default settings. However, due to the number of LDAP servers available, and the limitless ways in which any type of LDAP server can be configured, customizations may need to be made on such an LDAP server that fits either description.



**NOTE**: Please contact technical support for assistance in implementing any of the changes described in this appendix.

# **OpenLDAP Server Scenario**

## Not all users returned in User/Group Browser

In this scenario, a query is performed in the LDAP User/ Group Browser window on an OpenLDAP server, and not all users are returned.

To resolve this problem, do the following:

- 1. Change the current directory to /usr/local/shadow/etc/ Idapgroup
- Find the subdirectory bearing the name of the LDAP domain, and change the current directory to that subdirectory.
- 3. Open the file "Idapobjectdef.conf" for editing.
- 4. Search for the line "LDC LDAP query name prefix CN="
- 5. Replace "CN=" with "uid=" and save these changes.
- 6. Restart the R3000.

# APPENDIX E: USER/GROUP FILE FORMAT AND RULES

The file with filtering profiles you upload to the server must be set up in a specified format, with one complete profile per line. This format will differ depending on the type of profiles in the file: Users, groups, LDAP containers, or quota profiles for NT/LDAP entities.

Each non-quota filtering profile in the file must contain the following items:

- 1. The username, group name, or LDAP container name.
- 2. Filtering profile criteria:
  - Rule number (Rule0, Rule1, etc.), or
  - rule criteria:
    - a. Ports to Block or Filter
    - b. Categories to Block or Open
    - c. Filter Mode
- 3. Redirect URL (optional).
- 4. Filter Options (optional).

An NT/LDAP quota filtering profile is set up in the following format:

- 1. Enter the username, group name, or LDAP container name.
- 2. Press the Tab key on your keyboard to leave a space.
- 3. Enter the quota string.

# **Username Formats**

NOTE: For examples of valid username entries, see File Format: Rules and Examples in this appendix, or go to http:// www.8e6.com/r3000help/files/2group\_textfile\_user.html

# **Rule Criteria**

Rule criteria consists of selections made from the following lists of codes that are used in profile strings:

#### • Port command codes:

A = Filter all ports

- B = Filter the defined port number(s)
- I = Open all ports
- J = Open the defined port number(s)
- M= Set the defined port number(s) to trigger a warn message
- Q = Block all ports

R = Block the defined port number(s)

#### Port Numbers:

21 =FTP (File Transfer Protocol)
80 = HTTP (Hyper Text Transfer Protocol)
119 = NNTP (Network News Transfer Protocol)
443 = HTTPS (Secured HTTP Transmission)
Other

#### • Filter Mode Values:

- 1 = Default, Block Mode
- 2 = Monitoring Mode
- 4 = Bypassing Mode

#### Category command codes:

Category command codes must be entered in the following order: J, R, M, I. "PASSED" should either be entered after J, R, or M, or after a string of category codes following J, R, or M.

- J = Positioned before the category/categories defined as "always allowed."
- R = Positioned before the category/categories defined as "blocked."
- M = Positioned before the category/categories defined as containing URLs potentially against the organization's policies, and accompanied by a warning message.
- I = Positioned at the end of a profile string, indicating that all other categories should "pass."
- PASSED = When positioned at the end of a string of categories or after a category command code, this code indicates that unidentified categories will follow suit with categories defined by that code: J (pass), R (block), or M (receive warning message).
- Category Codes:

For the list of category codes (short names) and their corresponding descriptions (long names), go to http://www.8e6.com/r3000help/files/ 2group\_textfile\_cat.html#cat

**NOTE**: The list of library category codes and corresponding descriptions is subject to change due to the addition of new categories and modification of current categories. For explanations and examples of category items, go to http://www.8e6.com/database-categories.html

- Filter Option codes:
  - 0x1 = Exception URL Query (always enabled)
  - 0x2 = X Strikes Blocking
  - 0x4 = Google/Yahoo!/Ask.com/AOL Safe Search Enforcement
  - 0x100 = Search Engine Keyword
  - 0x200 = URL Keyword
  - 0x1000=Extend URL Keyword Filter Control

NOTE: To enable multiple filter codes, add the codes together—
 i.e. 1 + 2 + 4 + 100 + 200 + 1000 = 1307—which means that
 0x1307 should be entered at the end of the profile string. To disable all filter codes, enter 0x1 at the end of the profile string.

#### Quota format

A separate file—apart from the NT or LDAP profile file must be used in order to include quotas in the NT/LDAP group/user profile. In this file, each quota profile must be entered on a separate line in the following manner:

- 1. Type in the username.
- 2. Press the Tab key on your keyboard to leave a space.
- 3. Type in the quota string using this format: Overall Quota minutes, a comma (, ), the first library category code, a colon (:), the number of quota minutes, and a comma between each quota.

NOTE: See http://www.8e6.com/r3000help/files/
 2group\_textfile\_format\_nt.html for examples of NT filtering profile entries, and http://www.8e6.com/r3000help/files/
 2group\_textfile\_format\_ldap.html for examples of LDAP filtering profile entries. Quota profile entries are included in these pages.

# File Format: Rules and Examples

When setting up the file to upload to the server, the following items must be considered:

- Each profile must be entered on a separate line in the file.
- Category Codes must be entered in capital letters.
- Port and category command codes must be entered in capital letters.
- A redirect URL cannot exceed 200 characters in length.
- The string must end with "0x1" if no filter options will be enabled.
- If quotas are to be used in filtering profiles, these must be entered in a separate file from the NT or LDAP profile file.

## NT User List Format and Rules

When setting up the "ntuserprofile.conf" file, each entry must consist of the username, and either a rule number or rule criteria (port, category, and filter mode specifications). A redirect URL can be included, if a specific URL should be used in place of the standard block page. If a redirect URL is not included, a blank space should be entered in its place in the profile string. Segments of the profile string should be separated by commas (,). "0x1" should be placed at the end of a profile string without any filter options enabled. For example:

#### JSmith, B 80 R 21, J FINAN R EXART PASSED M BUGS I, 1, http://www.8e6.com, 0x1 John\_Doe, Q, J R AUTO GENTER M PASSED I, 1, , 0x104 Doe-Jane, Rule1, , 0x202

- NT profile for a user wi th ID "JSmith": Filter port 80, Block port 21, Always Allow Financial Institution category, Block Explicit Art category, Block all Uncategorized URLs, Warn on custom category Technical Bugs, Pass all other categories, use filter mode 1, use redirect URL http://www.8e6.com in place of the standard block page, no filter options enabled.
- NT profile for a user with ID "John\_Doe": Block all ports, Always Allow all categories except for Automobile and Entertainment categories which should be Blocked, Warn on all Uncategorized URLs, use filter mode 1, Google/Yahoo!/Ask.com/AOL Safe Search Enforcement and Search Engine Keyword filter options enabled.
- NT profile for a user with ID "Doe-Jane": Bypass all categories, use standard block page, X Strikes Blocking and URL Keyword filter options enabled.

## NT Group List Format and Rules

When setting up the "ntgroupprofile.conf" file, each entry must consist of the group name, and either a rule number or rule criteria (port, category, and filter mode specifications). A redirect URL can be included, if a specific URL should be used in place of the standard block page. If a redirect URL is not included, a blank space should be entered in its place in the profile string. Segments of the profile string should be separated by commas (,). "0x1" should be placed at the end of a profile string without any filter options enabled. For example:

#### Admin, Rule1, http://www.cnn.com, , 0x1 Sales, Rule2, ,0x300 Tech, A, J EMPL FINAN GENBUS TRADING ESTATE R M I, 1, , 0x6

- NT profile for a group with ID "Admin": Bypass all categories, use redirect URL http://www.cnn.com in place of the standard block page, no filter options enabled.
- NT profile for a group with ID "Sales": Block Porn category, use standard block page, Search Engine Keyword and URL Keyword filter options enabled.
- NT profile for a group with ID "Tech": Filter all ports, Always Allow Business/Investments categories, and let all other categories Pass, use filter mode 1, use standard block page, X Strikes Blocking and Google/Yahoo!/ Ask.com/AOL Safe Search Enforcement filter options enabled.

## NT Quota Format and Rules

When setting up the NT "quota.conf" file, each entry must consist of the group/user name, a Tab space, and quota criteria. A zero (0) should be used if no Overall Quota minutes are included. For example:

Admin	0, TICKET:15, TRAVEL:15, AUTO:15
Sales	20, PARNML:10, RELIG:10
Tech	15, GNEWS:15, SPORTS:5, TRAFIC:10

- NT quota profile for "Admin": No Overall Quota minutes; 15 quota minutes for each category listed.
- NT quota profile for "Sales": 20 Overall Quota minutes; 10 quota minutes for each category listed.
- NT quota profile for "Tech": 15 Overall Quota minutes; 15 quota minutes for the first category listed, 5 quota minutes for the second category, and 10 quota minutes for the third category.

## LDAP User List Format and Rules

When setting up the "Idapuserprofile.conf" file, each entry must consist of the Distinguished Name (DN), with each part of the DN separated by commas (,). The DN should be followed by a semicolon (;), and then a rule number or rule criteria (port, category, and filter mode specifications). A redirect URL can be included, if a specific URL should be used in place of the standard block page. If a redirect URL is not included, a blank space should be entered in its place in the profile string. Each segment of the profile string following the semicolon for the DN should be separated by commas (,). "0x1" should be placed at the end of a profile string without any filter options enabled. For example:

#### CN=Jane Doe, CN=Users, DC=qc, DC=local; R 21 A, J R KDPORN GPORN M PASSED I,1, , 0x1 CN=Public\, Joe Q., OU=Users, OU=Sales, DC=qc, DC=local; Rule0, , 0x1306

**NOTE**: The DN format must contain the username and user group "CN" ("common name") attribute type, and the domain and DNS suffix "DC" ("domain component") attribute type. The "OU" ("organizational unit") attribute type also can be included. Each attribute type should be followed by an equals sign (=), and separated by a comma (,).

When translated, these strings of code mean:

 LDAP profile for a user with username "Jane Doe", user group "Users", domain "qc", DNS suffix ".local": Block port 21 and Filter all other ports, Block Child Pornography and Pornography/Adult Content, Warn on Uncategorized URLs, and Pass all other categories, use filter mode 1, use redirect URL http://www.cnn.com in place of the standard block page, no filter options enabled.  LDAP profile for a user with username "Public\, Joe Q.", organizational units "Users" and "Sales", domain "qc", DNS suffix ".local": Block all ports, use minimum filtering level, use filter mode 1, use standard block page, enable all filter options.

# LDAP Group List Format and Rules

When setting up the "Idapgroupprofile.conf" file, each entry must consist of the Distinguished Name (DN), with each part of the DN separated by commas (,). The DN should be followed by a semicolon (;), and then a rule number or rule criteria (port, category, and filter mode specifications). A redirect URL can be included, if a specific URL should be used in place of the standard block page. If a redirect URL is not included, a blank space should be entered in its place in the profile string. Each segment of the profile string following the semicolon for the DN should be separated by commas (,). "0x1" should be placed at the end of a profile string without any filter options enabled. For example:

#### CN=Sales, CN=Users, DC=qc, DC=local; Rule1, 1, http://www.cnn.com, 0x1

**NOTE**: The DN format must contain the group name—and, if applicable—user group "CN" ("common name") attribute type, and the domain and DNS suffix "DC" ("domain component") attribute type. The "OU" ("organizational unit") attribute type also can be included. Each attribute type should be followed by an equals sign (=), and separated by a comma (,).

When translated, this string of code means:

 LDAP profile for group with ID "Sales", user group "Users", domain "qc", DNS suffix ".local": Bypass all categories, use filter mode 1, use redirect URL http:// www.cnn.com in place of the standard block page, no filter options enabled.

## LDAP Quota Format and Rules

When setting up the "quota.conf" file, each entry must consist of the Distinguished Name (DN), a Tab space, and quota criteria. A zero (0) should be used if no Overall Quota minutes are included. For example:

#### CN=Admin, CN=Users, DC=tc, DC=local 0, PARNML:15, RELIG:15 CN=Sales, CN=Reps, DC=tc, DC=local 10, GNEWS:5, SPORTS:5, TRAFIC:10



**NOTE**: The DN format must contain the group name—and, if applicable—user group "CN" ("common name") attribute type, and the domain and DNS suffix "DC" ("domain component") attribute type. The "OU" ("organizational unit") attribute type also can be included. Each attribute type should be followed by an equals sign (=), and separated by a comma (,).

- LDAP quota profile for "Admin", user group "Users", domain "tc", DNS suffix ".local": No Overall Quota minutes, and 15 quota minutes for each category listed.
- LDAP quota profile for "Sales", user group "Reps", domain "tc", DNS suffic ".local": 10 Overall Quota minutes, 5 quota minutes for the first two categories listed, and 10 quota minutes for the last category listed.

# APPENDIX F: OVERRIDE POP-UP BLOCKERS

An override account user with pop-up blocking software installed on his/her workstation will need to temporarily disable pop-up blocking in order to authenticate him/herself via the Options page:

le <u>E</u> dit <u>V</u> ie	Aicrosoft Internet Explorer
= Back 👻 🔿	- 🔇 🗿 🚰 🔞 Search 👔 Favorites 🎯 History 🛛 🔂 - 🎒 👿 - 📃
dress 🙋 http	://200.10.100.75:81/cgi/block.cgi 🗾 🔗 🗍 Lir
	OPTIONS <u>HELP</u>
User/M	achine: LOGO/Domain Admins/GLANG
	IP: 200.10.101.140
	tegory: Alcohol
Block	ed URL: http://www.coors.com/
Option 1:	<u>Click here</u> for secure Web-based authentication.
Option 2:	If the above profile is incorrect or there has been an error, you can:
option 2.	Re-start your system and re-login or
	<u>Try re-authenticating your user profile</u>
Option 3:	If you have an override account, enter your username and password.
	Username:
	Password: Override
	Warning! The override account option will not function if anti-popup software is installed on your system.

Fig. F-1 Options page

This appendix provides instructions on how to use an override account if typical pop-up blocking software is installed, as in the following products: Yahoo! Toolbar, Google Toolbar, AdwareSafe, Mozilla Firefox, and Windows XP Service Pack 2 (SP2).

# Yahoo! Toolbar Pop-up Blocker

## If pop-up blocking is enabled

- 1. In the Options page (see Fig. F-1), enter your **Username** and **Password**.
- 2. Press and hold the **Ctrl** key on your keyboard while simultaneously clicking the **Override** button—this action opens the override account pop-up window.

## Add override account to the white list

If the override account window was previously blocked by the Yahoo! Toolbar, it can moved from the black list and added to the white list so that it will always be allowed to pass. To do this:

1. Go to the Yahoo! Toolbar and click the pop-up icon to open the pop-up menu:

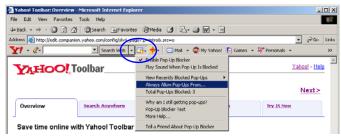


Fig. F-2 Select menu option Always Allow Pop-Ups From

2. Choose Always Allow Pop-Ups From to open the Yahoo! Pop-Up Blocker dialog box:

Yahoo! Pop-Up Blocker		×
Sources of Recently Blocked Pop-Ups:		
edit.companion.yahoo.com	Allow	
Be6.com	Remove	
Help	Close	

Fig. F-3 Allow pop-ups from source

- 3. Select the source from the Sources of Recently Blocked Pop-Ups list box to activate the Allow button.
- 4. Click **Allow** to move the selected source to the Always Allow Pop-Ups From These Sources list box.
- 5. Click **Close** to save your changes and to close the dialog box.

# Google Toolbar Pop-up Blocker

## If pop-up blocking is enabled

- 1. In the Options page (see Fig. F-1), enter your **Username** and **Password**.
- 2. Press and hold the **Ctrl** key on your keyboard while simultaneously clicking the **Override** button—this action opens the override account pop-up window.

## Add override account to the white list

To add the override account window to the white list so that it will always be allowed to pass, go to the Google Toolbar and click the # blocked icon:



Fig. F-4 # blocked icon enabled

Clicking this icon toggles to the Site pop-ups allowed icon, adding the override account window to your white list:



Fig. F-5 Site pop-ups allowed icon enabled

# AdwareSafe Pop-up Blocker

## If pop-up blocking is enabled

- 1. In the Options page (see Fig. F-1), enter your **Username** and **Password**.
- 2. Press and hold the **Ctrl** key on your keyboard while simultaneously clicking the **Override** button—this action opens the override account pop-up window.

## Temporarily disable pop-up blocking

AdwareSafe's SearchSafe toolbar lets you toggle between enabling pop-up blocking (# popups blocked) and disabling pop-up blocking (Popup protection off) by clicking the popup icon.

- 1. In the IE browser, go to the SearchSafe toolbar and click the icon for # popups blocked to toggle to Popup protection off. This action turns off pop-up blocking.
- 2. In the Options page (see Fig. F-1), enter your **Username** and **Password**.
- 3. Click the **Override** button to open the override account pop-up window.
- 4. Go back to the SearchSafe toolbar and click the icon for Popup protection off to toggle back to # popups blocked. This action turns on pop-up blocking again.

# Mozilla Firefox Pop-up Blocker

## Add override account to the white list

- 1. From the browser, open the Preferences dialog box.
- Go to the Category list box and select Privacy & Security
   Popup Windows to display the Popup Windows page:

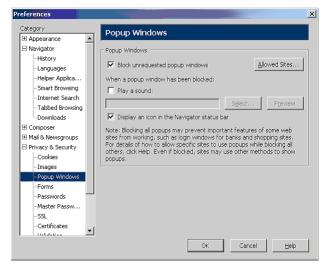


Fig. F-6 Mozilla Firefox Popup Windows Preferences

- 3. With the "Block unrequested popup windows" checkbox checked, click **Allowed Sites** and enter the URL to allow the override account window to pass.
- 4. Click **OK** to save your changes and to close the dialog box.

# Windows XP SP2 Pop-up Blocker

## Set up pop-up blocking

There are two ways to enable the pop-up blocking feature in the IE browser.

## Use the Internet Options dialog box

- 1. From the IE browser, go to the toolbar and select Tools > Internet Options to open the Internet Options dialog box.
- 2. Click the Privacy tab:



Fig. F-7 Enable pop-up blocking

- 3. In the Pop-up Blocker frame, check "Block pop-ups".
- 4. Click **Apply** and then click **OK** to close the dialog box.

## Use the IE toolbar

In the IE browser, go to the toolbar and select Tools > Popup Blocker > Turn On Pop-up Blocker:

Microsoft Office Online: Installation Troubleshooter - Microsoft Internet Explorer					
File Edit View Favorites	Tools Help				
G Back - S -	Mail and News  Pop-up Blocker Manage Add-ons	Virn On Pop-up Blocker Pop-up Blocker Settings			
Links 🙋 8e6 🔌 Source 🔌	Synchronize Windows Update	a 🙆 8e6 Channel Partners Newsletter e 🥑 TurboPipe 🍓 8e6 Website User Management			
	Windows Messenger ICQ Lite Sun Java Console	Microsoft.com Home   Site Map			
	Internet Options	earch: Downloads 💌 😡			

Fig. F-8 Toolbar setup

When you click Turn On Pop-up Blocker, this menu selection changes to Turn Off Pop-up Blocker and activates the Pop-up Blocker Settings menu item.

You can toggle between the On and Off settings to enable or disable pop-up blocking.

## Temporarily disable pop-up blocking

- 1. In the Options page (see Fig. F-1), enter your **Username** and **Password**.
- 2. Press and hold the **Ctrl** key on your keyboard while simultaneously clicking the **Override** button—this action opens the override account pop-up window.

## Add override account to the white list

There are two ways to disable pop-up blocking for the override account and to add the override account to your white list.

## Use the IE toolbar

 With pop-up blocking enabled, go to the toolbar and select Tools > Pop-up Blocker > Pop-up Blocker Settings to open the Pop-up Blocker Settings dialog box:



Fig. F-9 Pop-up Blocker Settings

- 2. Enter the **Address of Web site to allow**, and click **Add** to include this address in the Allowed sites list box. Click **Close** to close the dialog box. The override account window has now been added to your white list.
- 3. In the Options page (see Fig. F-1), enter your **Username** and **Password**.
- 4. Click the **Override** button to open the override account pop-up window.

## Use the Information Bar

With pop-up blocking enabled, the Information Bar can be set up and used for viewing information about blocked popups or allowing pop-ups from a specified site.

### Set up the Information Bar

- Go to the toolbar and select Tools > Pop-up Blocker > Pop-up Blocker Settings to open the Pop-up Blocker Settings dialog box (see Fig. F-9).
- 2. In the Notifications and Filter Level frame, click the checkbox for "Show Information Bar when a pop-up is blocked."
- 3. Click **Close** to close the dialog box.

### Access your override account

- 1. In the Options page (see Fig. F-1), enter your **Username** and **Password**.
- 2. Click the **Override** button. This action displays the following message in the Information Bar: "Pop-up blocked. To see this pop-up or additional options click here...":

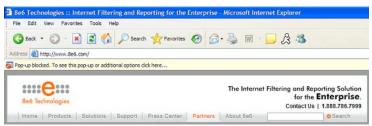


Fig. F-10 Information Bar showing blocked pop-up status

3. Click the Information Bar for settings options:

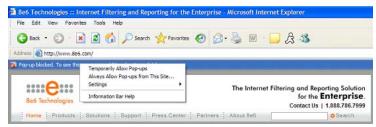


Fig. F-11 Information Bar menu options

4. Select Always Allow Pop-ups from This Site—this action opens the Allow pop-ups from this site? dialog box:

Allow po	op-ups from this site?	X
<b></b>	Would you like to allow pop-upe from \www.8e6.com?	
	Yes No	

Fig. F-12 Allow pop-ups dialog box

5. Click **Yes** to add the override account to your white list and to close the dialog box.

NOTE: To view your white list, go to the Pop-up Blocker Settings dialog box (see Fig. F-9) and see the entries in the Allowed sites list box.

6. Go back to the Options page and click **Override** to open the override account window.

# **APPENDIX G: GLOSSARY**

# Definitions

This glossary includes definitions for terminology used in this user guide.

**ADS** - Active Directory Services is a Windows 2000 directory service that acts as the central authority for network security, by letting the operating system validate a user's identity and control his or her access to network resources.

**attribute** - A component of a group base or Distinguished Name (DN) that has a type and value. Attribute types include "cn" for common name, "dc" for domain component, and "ou" for organizational unit.

**authentication method** - A way to validate users on a network. Methods include SMB/NT (referred to as "NT" throughout this user guide) and LDAP.

**authentication server** - The domain controller on a domain. This server is used for authenticating users on the network.

**block setting** - A setting assigned to a service port or library category when creating a rule, or when setting up a filtering profile or the minimum filtering level. If an item is given a block setting, users will be denied access to it.

**common name (cn)** - An attribute type entered for a username and group when using LDAP.

**container** - An LDAP server object that can be comprised of containers, organizational units, or domains. Container objects can also "contain" other objects, such as user objects, group objects, and computer objects.

**directory** - This information source on a server contains attribute-based data relevant to a DN entry.

**directory service** - Uses a directory on a server to automate administrative tasks for storing and managing objects on a network (such as users, passwords, and network resources users can access). ADS, DNS, and NDS (Novell Directory Services) are types of directory services.

**Distinguished Name (DN)** - A string of "cn" and "dc" attribute types comprised of the username and group name, domain name, and DNS suffix. For example: "cn=admin\_user, cn=admin, dc=yahoo, dc=com". The "ou" attribute type also could be a part of the DN. For example: "cn=Joe Smith, ou=users, ou=sales, dc=acme, dc=com".

**DNS** - Domain Name Service is a distributed Internet directory service. DNS is used mostly for making translations between domain names and IP addresses.

**domain** - An entity on a network comprised of servers, workstations, and peripherals.

**domain component (dc)** - An attribute type entered for a domain name and DNS suffix when using LDAP.

**domain controller** - An authentication server that answers logon requests from workstations in a Windows NT domain. There are two types of domain controller servers: Primary Domain Controller (PDC) and Backup Domain Controller (BDC).

**dynamic group** - a virtual LDAP group that does not contain names of its members but is derived automatically by matching certain user data criteria. (See also "static group".)

**entry** - A collection of attribute types that comprise a Distinguished Name (DN). Each attribute type of the Distinguished Name has a type and one or more values. These types are mnemonic strings, such as "cn" for common name, "dc" for domain component, or "ou" for organizational unit.

**filter setting** - A setting made for a service port. A service port with a filter setting uses filter settings created for library categories (block, open, or always allow settings) to determine whether users should be denied or allowed access to that port.

**firewall mode** - An R3000 set up in the firewall mode will filter all requests. If the request is appropriate, the original packet will pass unchanged. If the request is inappropriate, the original packet will be blocked from being routed through.

**global administrator** - An authorized administrator of the network who maintains all aspects of the R3000, except for managing master IP groups, NT and LDAP domains, and each member's associated filtering profile. The global administrator configures the R3000, sets up master IP groups and NT/LDAP domains, and performs routine maintenance on the server.

**group administrator** - An authorized administrator of the network who maintains a master IP group or NT/LDAP domain/group, and sets up and manages members within the group/domain. This administrator also adds and maintains customized library categories for group/domain members.

**group name** - The name of a group set up for a domain on an NT server. For example: "production" or "sales".

**invisible mode** - An R3000 set up in the invisible mode will filter all connections on the Ethernet between client PCs and the Internet, without stopping each IP packet on the same Ethernet segment. The unit will only intercept a session if an inappropriate request was submitted by a client.

**LDAP** - One of two authentication method protocols used by the R3000. Lightweight Directory Access Protocol (LDAP) is a directory service protocol based on entries (Distinguished Names). **LDAP host** - The LDAP domain name and DNS suffix. For example: "yahoo.com" or "server.local".

**login (or logon) script** - Consists of syntax that is used for re-authenticating a user if the network connection between the user's machine and the server is lost.

**machine name** - Pertains to the name of the user's workstation machine (computer).

**minimum filtering level** - A set of library categories and service ports defined at the global level to be blocked or opened. If the minimum filtering level is established, it is applied in conjunction with a user's filtering profile. If a user does not belong to a group, or the user's group does not have a filtering profile, the default (global) filtering profile is used, and the minimum filtering level does not apply to that user.

**name resolution** - A process that occurs when the R3000 attempts to resolve the IP address of the authentication server with the machine name of that server. This continuous and regulated automated procedure ensures the connection between the two servers is maintained.

**net use** - A command that is used for connecting a computer to—or disconnecting a computer from—a shared resource, or displaying information about computer connections. The command also controls persistent net connections.

**NetBIOS** - Network Basic Input Output System is an application programming interface (API) that augments the DOS BIOS by adding special functions to local-area networks (LANs). Almost all LANs for PCs are based on the NetBIOS. NetBIOS relies on a message format called Server Message Block (SMB).

**NetBIOS name lookup** - An authentication method used for validating a client (machine) by its machine name.

**Network Address Translation (NAT)** - Allows a single real IP address to be used by multiple PCs or servers. This is accomplished via a creative translation of inside "fake" IP addresses into outside real IP addresses.

**open setting** - A setting assigned to a service port or library category when creating a rule, or when setting up a filtering profile or the minimum filtering level. If an item is given an open (pass) setting, users will have access to it.

**organizational unit (ou)** - An attribute type that can be entered in the LDAP Distinguished Name for a user group.

**override account** - An account created by the global group administrator or the group administrator to give an authorized user the ability to access Internet content blocked at the global level or the group level.

**PDC** - A Primary Domain Controller functions as the authentication server on a Windows NT domain. This server maintains the master copy of the directory database used for validating users.

**profile string** - The string of characters that define a filtering profile. A profile string can consist of the following components: category codes, service port numbers, and redirect URL.

**protocol** - A type of format for transmitting data between two devices. LDAP and SMB are types of authentication method protocols.

**proxy server** - An appliance or software that accesses the Internet for the user's client PC. When a client PC submits a request for a Web page, the proxy server accesses the page from the Internet and sends it to the client. A proxy server may be used for security reasons or in conjunciton with caching for bandwidth and performance reasons. **quota** - The number of minutes configured for a passed library category in an end user's profile that lets him/her access URLs for a specified time before being blocked from further access to that category.

**router mode** - An R3000 set up in the router mode will act as an Ethernet router, filtering IP packets as they pass from one card to another. While all original packets from client PCs are allowed to pass, if the R3000 determines that a request is inappropriate, a block page is returned to the client to replace the actual requested Web page or service.

**rule** - A filtering component comprised of library categories set up to be blocked or opened. Each rule created by the global administrator is assigned a number and a name that should be indicative of its theme. Rules are used when creating filtering profiles for entities on the network.

**search engine** - A program that searches Web pages for specified keywords and returns a list of the pages or services where the keywords were found.

**service port** - Service ports can be set up to blocked. Examples of these ports include File Transfer Protocol (FTP), Hyper Text Transfer Protocol (HTTP), Network News Transfer Protocol (NNTP), Secured HTTP Transmission (HTTPS), and Other ports such as Secure Shell (SSH).

**SMB** - One of two authentication method protocols used by the R3000. Server Message Block is a "client/server, request/response" protocol.

**static group** - An LDAP group that contains names of its members. (See also "dynamic group".)

**Sub Admin** - An NT/LDAP group administrator assigned to a specific domain, group, LDAP container, or member. This group administrator manages the profiles of entities (nodes) assigned to him/her.

**sub-group** - An entity of a master IP group with an associated member IP address, and filtering profile.

**time-based profile** - A user profile used by both the NT and LDAP authentication methods to give a user a time limit on his/her Internet access to specified library categories.

**time profile** - A customized filtering profile set up to be effective at a specified time period for designated users.

**tiers** - Levels of authentication methods. Tier 1 uses net use based authentication for NT or LDAP. Tier 2 uses timebased profiles for both the NT and LDAP authentication methods. Tier 3 uses persistent login connections for either the NT or LDAP authentication methods.

**URL** - An abbreviation for Uniform Resource Locator, the global address of Web pages and other resources on the Internet. A URL is comprised of two parts. The first part of the address specifies which protocol to use (such as "http"). The second part specifies the IP address or the domain name where the resource is located (such as "203.15.47.23" or "8e6.com").

virtual IP address - The IP address used for communicating with all users who log on the network.

**warn setting** - A setting assigned to a library category or uncategorized URLs when creating a rule, or when setting up a filtering profile. This designation indicates URLs in the library category or uncategorized URLs may potentially be in opposition to the organization's policies, and are flagged with a warning message that displays for the end user if a URL from that library category or an uncategorized URL is requested.

**Web-based** - An authentication method that uses timebased profiles or persistent login connections.

**white list** - A list of approved library categories for a specified entity's filtering profile.

# INDEX

### **Numerics**

3-try login script *192* 8e6 Authenticator *25*, *214* 8e6 supplied category *18* 

### Α

Account tab 107 Active Directory Agent 25, 225 active filtering profiles 15 Address tab 104 Administrator window 77 ADS. definition 301 alert box, terminology 3 Alias List tab 111 Alias Name 112 always allowed 20 Anonymous Bind 107, 117 Assign to user 132 attribute. definition 301 authentication activate NT 192 activate on network 163 activate Web-based for Global Group 176 activated Web-based for IP group 164 configuration procedures 29 methods 202 net use based module diagram 200 net use based process 200 servlet 43 setup procedures 198 specifications and requirements 202 test net use settings 162 test settings 151 test Web-based settings 153 Authentication Form Customization 69 authentication method, definition 301

Authentication Request Form 63, 151, 160 figure 151, 161 authentication server 11 definition 301 function in net use based process 200 login scripts 205 Authentication Settings window 46 join the domain 80 authentication solution single user compatibility chart 26 system deployment options on a network 27 Authentication SSL Certificate window 48 authmodule.log 55

#### В

Backup Domain Controller (BDC) 302 backup server configuration 114 Backup Server Configuration wizard 115 Block page 59 block page 14, 15, 16 Block Page Authentication 58 Block Page Customization 73 block setting 20 definition 301 button, terminology 3

### С

category custom categories 18 library 18 category codes 281 Category Profile domain 138 Category tab domain 138 checkbox, terminology 3 Common Customization 66 common name (cn), definition 301 container 11, 22 container, definition 301 Create CSR 51 Create Domain Controller 82 Create LDAP Domain dialog box 97 custom categories 18

### D

Default Rule tab 113 dialog box, terminology 3 directory service, definition 302 directory, definition 301 Distinguished Name (DN) definition 302 LDAP protocol 203 Distinguished Name Auto Discovery 108 DNS, definition 302 domain definition 302 delete profile 121 domain component (dc), definition 302 domain controller, definition 302 Domain Name Service (DNS) 302 dynamic group 11 dynamic group, definition 302

### Ε

edirAgent.log 55 eDirectory 216, 222 edirEvent.log 55 Enable/Disable Authentication window 40 entry, definition 302 environment requirements 33 eth0, eth1 36 Exception URL window 143

#### F

field, terminology 3 file formats 283

filter option codes 282 filter options 142 filter setting 20 definition 303 filtering 281 category codes 281 LDAP container 16 profile components 17 profile types 12 rules 21 static profiles 14 user, machine 15 Firefox 33, 34 firewall mode 36, 38 definition 303 frame, terminology 4

### G

gateway IP address 38 global administrator, definition 303 global filtering profile 15 global group 8 grid, terminology 4 group global 8 IP 9 LDAP 11 NT 10 types of 8 group administrator, definition 303 group name, definition 303 group objects 102 Group tab 101 Group/Member Details window 136

### Η

HTTPS 34

### L

IANA 203 individual IP member profile type 14 Internet Explorer 33 invisible mode 36, 38 definition 303 IP group 9 diagram 9 IPC share 200

#### J

Java applet 44 Java Plug-in 33 Java Runtime Environment 33, 44 Java Virtual Machine 33 JavaScript 33 join the domain 80

### L

LAN Settings window 38 LAN1, LAN2 38, 47 LDAP Active Directory Service usage 207 authentication protocol 24 definition 303 domain diagram 11 domain groups 11 name resolution method 204 profile file format 130 protocol 203 server customizations 278 server setup 207 LDAP domain add 97 add groups, users 122 LDAP domain window 99 LDAP host, definition 304 LDAP Query Base 106, 116

LDAP Server Type 100 LDAP User/Group Browser window 123 library categories 18 category codes list 281 list box, terminology 4 lock profile 13 profile type 16 log view files 55 login (or logon) script definition 304 examples 205 usage 200

#### Μ

machine name, definition 304 Macintosh 33, 34 Manually Add Group dialog box LDAP 128 NT domain 93 Manually Add Member dialog box LDAP 127 NT domain 92 master IP group 9 filtering profile 14 methods authentication 202 name resolution 204 Microsoft Active Directory Mixed Mode 100, 198 Native Mode 100, 198 minimum filtering level 19 definition 304

#### Ν

name resolution definition 304 methods 204 WINS Server 204 NAT definition 305 navigation panel terminology 4 net use command 192 definition 304 syntax 205 NetBIOS definition 304 name lookup, definition 304 NetBIOS Domain Name 105, 116 NetBIOS name 46 Netscape Directory Server 100 Network Address Translation (NAT), definition 305 network requirements 34 NIC device 47 Novell 24, 100, 110, 199, 203, 216, 220, 267 Novell eDirectory Agent 25, 222 NT domain diagram 10 domain groups 10 profile file format 95 NT domain add 82 Default Rule 86 Domain Settings 84 NTLM authentication protocol 24, 80

#### 0

open setting 20 definition 305 OpenLDAP 24, 123 server customizations 278 Operation Mode window 36 Options page 62 organizational unit (ou), definition 305 override account AdwareSafe popup blocking 294 block page authentication 58 definition 305 Google Toolbar popup blocking 293 Mozilla Firefox popup blocking 295 override popup blockers 290 profile type 16 Windows XP SP2 popup blocking 296 Yahoo! Toolbar popup blocking 291

#### Ρ

PDC 81 definition 305 pop-up blocking, disable 290 pop-up box/window, terminology 5 primary IP address 39 Primary Domain Controller (PDC) 302 profile string definition 305 elements 280 Profile window 137 protocol definition 305 LDAP 203 SMB 202 proxy server definition 305 pull-down menu, terminology 5

### Q

quota 95, 130 definition 306 format 282

### R

radio button, terminology 5 Radius profile 13 re-authentication block page authentication 58 net use based process 202 Redirect URL tab domain 141 requirements environment 33 router mode 36, 38 definition 306 rule 19 criteria 280 definition 306 rules LDAP server setup 207

#### S

Safari 33, 34 screen, terminology 5 search engine, definition 306 secondary IP address 39 Select Groups/Members from Domain window 89 Server Message Block (SMB), definition 306 service port 19 definition 306 session-based authentication (Tier 3) 24 Set Group Priority window LDAP domain 126 NT domain 90 Single Sign-On Novell eDirectory authentication 222 Tier 1 authentication 200 single sign-on authentication (Tier 1) 24 SMB definition 306 disable Signing requirements in Windows 2003 262 protocol 202 Signing 202 SMB/NT name resolution method 204 SSL certificate 49 Active Directory 267 Novell 275 obtain, export from LDAP server 267 Sun ONE 277

SSL settings 109 SSL tab 109 SSO 222 static filtering profiles 14 static group 11 static group, definition 306 Sub Admin 306 sub-group definition 306 sub-topic terminology 6 Sun IPlanet 100 Sun ONE 24, 100 system requirements 33

### Т

TAR profile 13 technical support 195 text box, terminology 6 Tier 1 net use based authentication 30, 42, 163, 200 Tier 1 and Tier 2 Script 211 Tier 2 time-based, Web-based authentication 208 Tier 2 Script 210 Tier 2. Tier 3 Web-based authentication 30, 43, 163 Tier 3 session-based, Web-based authentication 213 tiers definition 307 Web-based authentication 163 time profile add 145 definition 307 profile type 16 time-based authentication (Tier 2) 24 time-based profile 43, 58 topic, terminology 6 tree, terminology 7

Type tab 99

### U

Upload User/Group Profile window LDAP domain 129 NT domain 94 URL, definition 307 Usage Graphs 152 usage logs 55 user objects 103 User tab 103 username formats 280

### V

View Log File window 54 virtual IP address 47, 205 definition 307

#### W

warn setting 20
warn setting, definition 307
wbwatch.log 55
Web-based authentication 29, 40, 48
block page authentication 58
SSL certificate 31
Web-based, definition 307
white list, definition 307
window, terminology 7
Windows 2003
SMB Signing 202
WINS Server 46
name resolution usage 204
workstation requirements 33