BLUE LANCE

LT Auditor+ 2013

Configuration Guide

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Special Conventions

The following special icons are used in this document to alert the reader to important pieces of information:

Icons	Description
STOP	WARNING: Alerts the reader to a potential action, practice, or situation that can result in major damage to data or the system. Damage is permanent and irreversible. Results may be contrary to what is expected or intended.
CAUTION!	CAUTION: Alerts the reader to a potential action, practice, or situation that can result in minor damage to data or the system. Results may be contrary to what is expected or intended.
NOTE	NOTE: Extra or supplementary information that needs to be emphasized to the reader. Can provide further context, instructions, or understanding
TIP	TIP: Useful tips or pointers that can help the reader while they are using the product or this document.

Chapter 1 - About the Document

This chapter provides a general overview of this document and contains following major subsections.

- Document Purpose
- Document Audience
- Document Scope
- Using this Document
- Getting Technical support

Document Purpose

This document is intended to serve as a document that best describes the procedures and steps for Installing LT Auditor+. It focuses on the pre-requisites, system requirement and pre-installation of LT Auditor+.

Document Audience

This document is intended for the following users:

Team or person responsible for using the LT Auditor+ application
Team or person entrusted with deploying LT Auditor+ in the environment

Document Scope

The scope of this document includes information that will help you understand the functionalities of LT Auditor+.

The scope includes the following major topics:

- Description of key features
- Details on configuring and using LT Auditor+

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Using this Document

This section explains the Installation and Configuration of the LT Auditor+.

Document Structure

The document is divided into the following chapters:

Chapter	Description
About the Document	Provides information about this document, including what it is used for, who should read it, what it contains, how it is presented and how it is used.
About LT Auditor+ Configuration Guide	Provides information about LT Auditor+ configuration, deployment and management of audit policies.

Chapter 2 – LT Auditor+ Workspace

This section will provide detailed steps to show you how to use LT Auditor+ Security Management Console to configure your workspace.

Connecting to the Workspace

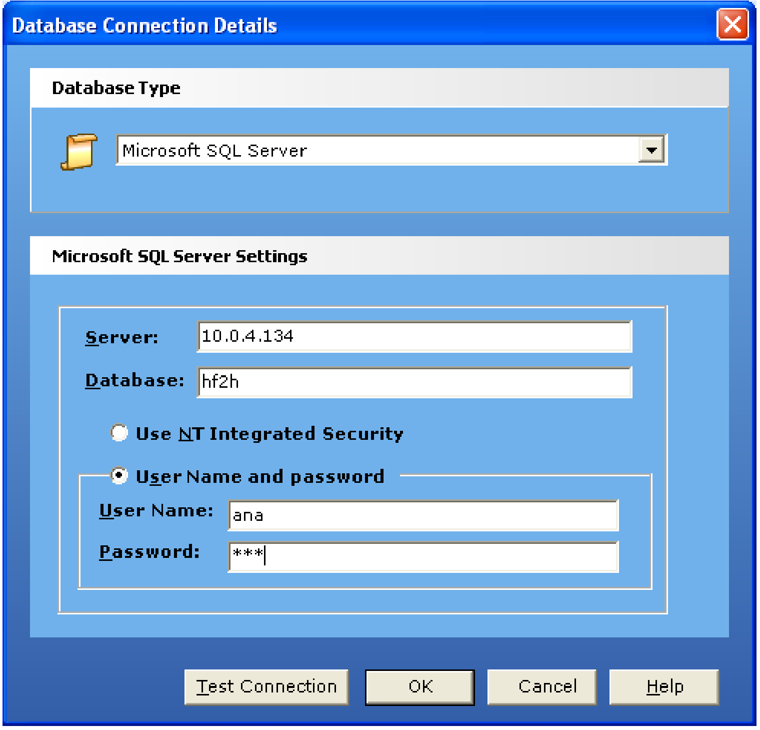
1. To launch the Security Management Console click **Start** → **All Programs** → **Blue Lance, Inc** → **Management Console.**

The first screen prompts you for the database connection information. This lets you connect to the workspace that you need to configure.

NOTE

You must be authenticated to (have credentials to access) the workspace

For SQL (Management Console):


Database Connection Details

Database Type: Microsoft SQL Server

Microsoft SQL Server Settings

Server: 10.0.4.134

Database: hf2h

○ Use NT Integrated Security

● User Name and password

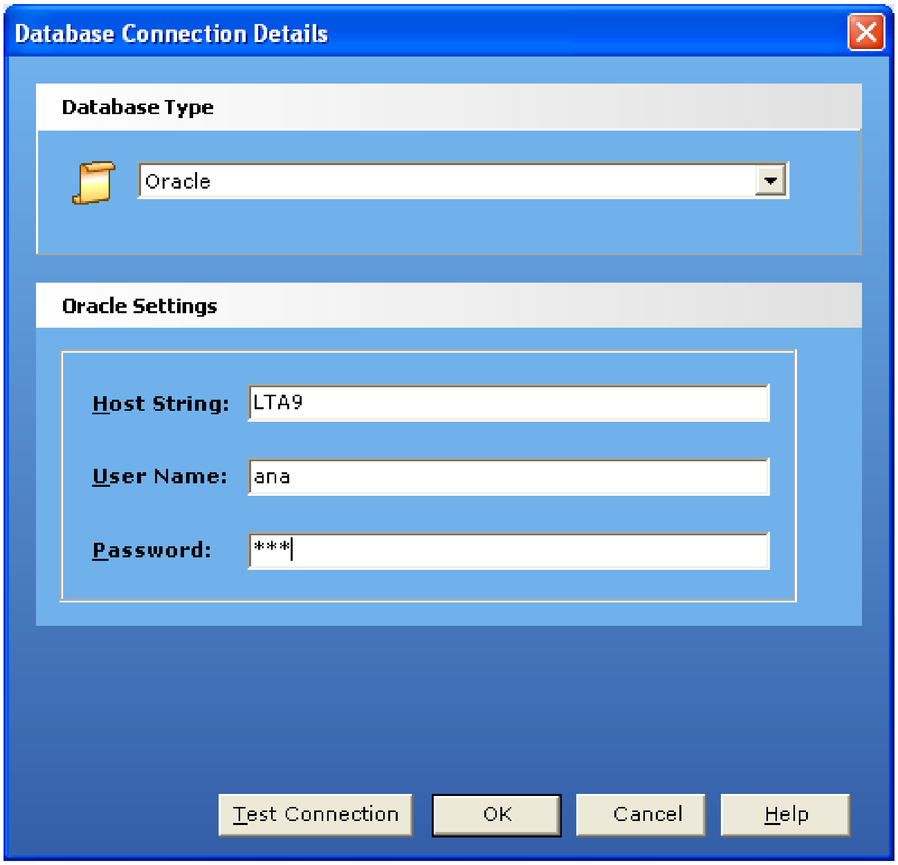
User Name: ana

Password: ***

2. Select Microsoft SQL Server for database type.
3. Provide **Server ID.**

4. Provide **Database Name.**
5. Select Use NT Integrated Security OR **User Name** and **Password.**
6. If **User Name** and **Password** is selected, provide the **User Name** and the **Password.**
7. Click **OK**.

For Oracle (Management Console):



Database Type: Oracle

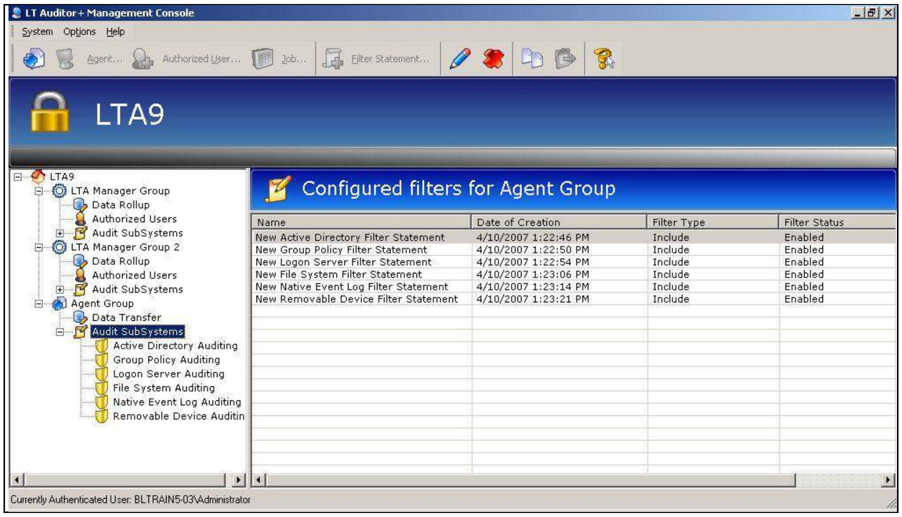
Host String: LTA9

User Name: ana

Password: ***

1. Select **Oracle** for Database Type.
2. Provide **Host String**.
3. Provide **User Name**
4. Provide **Password**.
5. Click **OK**.

The Management Console will be launched as soon as you are authenticated to the workspace as displayed in the screen below:



Name	Date of Creation	Filter Type	Filter Status
New Active Directory Filter Statement	4/10/2007 1:22:46 PM	Include	Enabled
New Group Policy Filter Statement	4/10/2007 1:22:50 PM	Include	Enabled
New Logon Server Filter Statement	4/10/2007 1:22:54 PM	Include	Enabled
New File System Filter Statement	4/10/2007 1:23:06 PM	Include	Enabled
New Native Event Log Filter Statement	4/10/2007 1:23:14 PM	Include	Enabled
New Removable Device Filter Statement	4/10/2007 1:23:21 PM	Include	Enabled

Currently Authenticated User: BLTRAIN5-03\Administrator

The Management Console is divided into two views. The left pane shows the currently configured workspace with the workspace name as the root node of the tree. Below the root nodes are the Manager Groups and Agent Groups of the workspace. The right pane displays the details of each node highlighted on the left side.

Select the workspace root node in the tree to display all the Manager Groups and Agent Groups in the pane on the right side.

Manager Groups

Manager groups cannot be created using the Management Console. These groups are created when you install the LT Auditor+ Manager as discussed in the LT Auditor+ Installation guide. A workspace can contain more than one Manager residing in more than one Manager Group.

NOTE

You need to place Managers in different Manager Groups if you intend to have different policies for each Manager.

Creating Agent Groups

New Agent Groups are created from the Management Console. To create a new Windows Agent Group, choose one of the following:

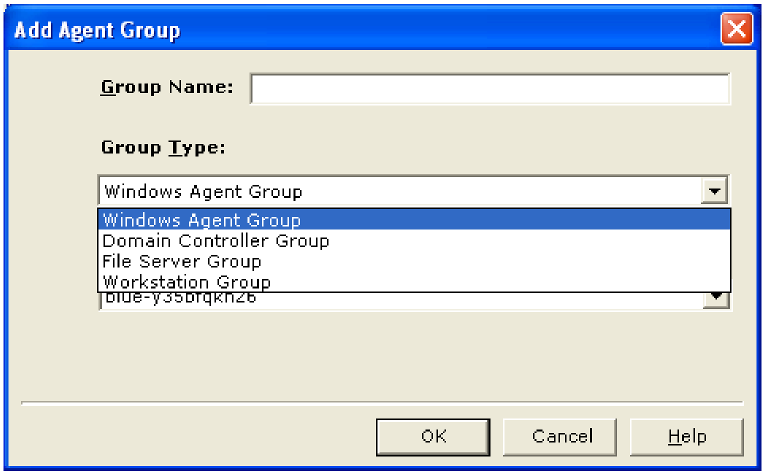
1. Click on **System** → **New** → **Windows Agent Group** OR
2. Click on the toolbar icon **Windows Agent Group**. OR
3. Right click on the **Workspace**
4. Click **Windows Agent Group**

When creating a new Agent group in the Management Console, the user must determine the type of Agent group being created. There are four types of Agent groups available for creation in LT Auditor+ for Windows; these include:

- **Windows Agent Group** – this group type is intended for backward compatibility with older versions of LT Auditor+. It may contain machines of any type.
- **Domain Controller Group** – this group type may only contain domain controller machines.
- **Member Server Group** – this group type may only contain member server machines.
- **Workstation Group** – this group type may only contain non-server machines in the domain.

To create a new Agent group:

1. Right click on the root node of the workspace in the left pane of the **Management Console**.
2. Select **Agent Group (Windows\SUSE Linux or any other application)**
3. The new form for Agent group creation appears as below:



Add Agent Group

Group Name:

Group Type: Windows Agent Group

The selection of domain and group type will determine which Agent machines are available in the workspace for addition to the new Agent group.

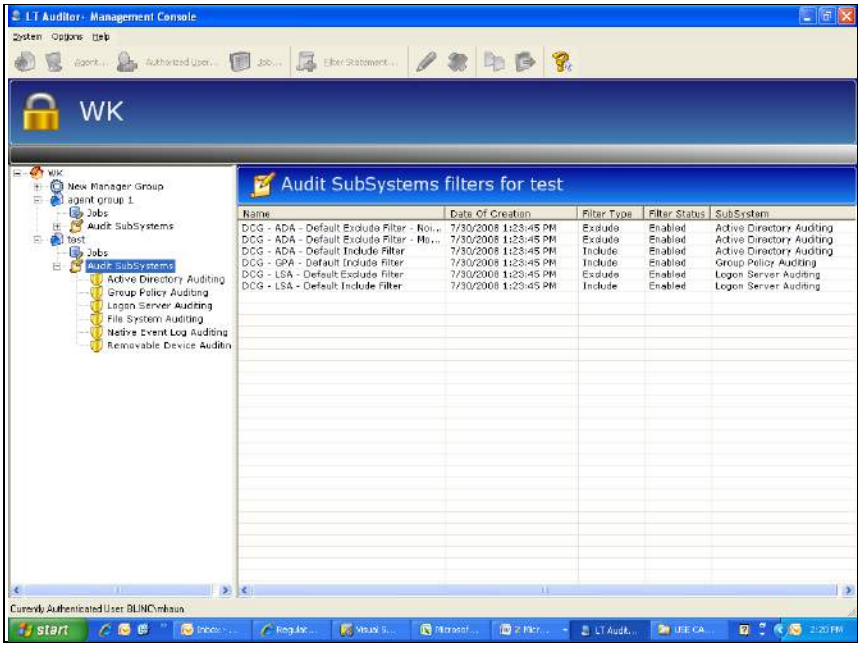
A primary Manager is responsible for deploying policies that change within that group. Also, all Agents within that group will attempt data transfer with the primary Manager first, before attempting to transfer to any other Manager in the workspace.

Default Filter Statement

Default filter statements will now be set for each Agent group upon creation, and will vary according to group type as is appropriate. Default filter statements may be modified in any way to suit specific auditing needs, and may be restored to their original configuration at any time by selecting the Restore Default Settings option in the menu.

To view default filters:

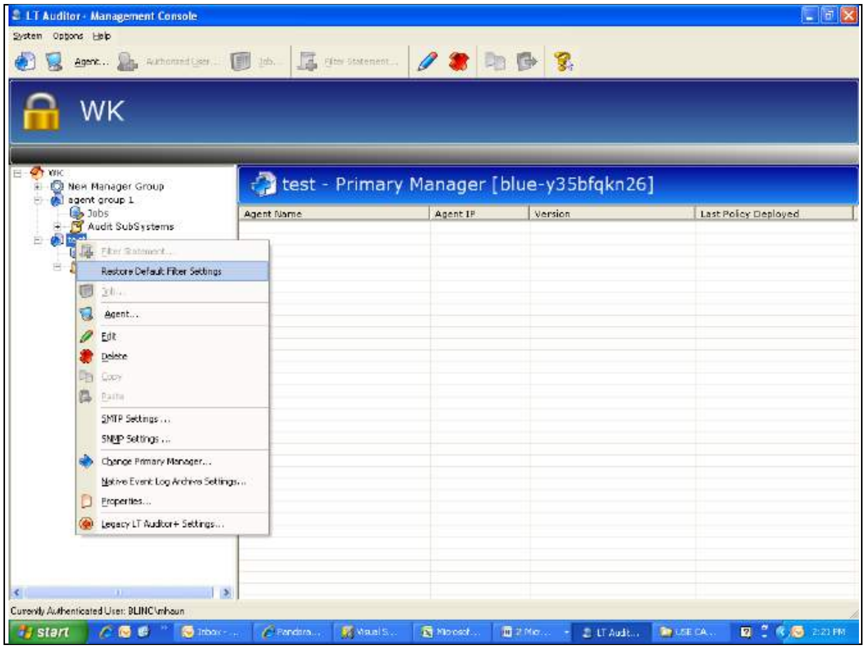
1. Highlight the Agent group or a specific audit subsystem whose filters you would like to view in the left pane of the Management Console.
   The default filters will appear in the right pane list view.



Name	Date Of Creation	Filter Type	Filter Status	SubSystem
DCG - ADA - Default Exclude Filter - Noi...	7/30/2008 1:23:45 PM	Exclude	Enabled	Active Directory Auditing
DCG - ADA - Default Exclude Filter - Mo...	7/30/2008 1:23:45 PM	Exclude	Enabled	Active Directory Auditing
DCG - ADA - Default Include Filter	7/30/2008 1:23:45 PM	Include	Enabled	Active Directory Auditing
DCG - GPA - Default Include Filter	7/30/2008 1:23:45 PM	Include	Enabled	Group Policy Auditing
DCG - LSA - Default Exclude Filter	7/30/2008 1:23:45 PM	Exclude	Enabled	Logon Server Auditing
DCG - LSA - Default Include Filter	7/30/2008 1:23:45 PM	Include	Enabled	Logon Server Auditing

To restore the default settings after reconfiguration:

2. Right click on the Agent group
3. Select **Restore Default Filter Settings** from the menu. Restoring default filter settings may only be done for all audit subsystems within an Agent group simultaneously.
   Default settings may not be restored for an individual subsystem.



The default filters for each group type are listed below:

Domain Controller Groups

Active Directory:

Exclude Noise Users Statement - Excludes Users: *$*, *NT Authority*, *\System*, -\-, -,\,*ANONYMOUS LOGON*

a. Exclude Modify Object Statement – Excludes the "modify object" operation
b. Include Statement – Includes all operations

Group Policy:

a. Include Statement – Includes all operations

Logon Server:

a. Exclude Noise Users Statement - Excludes Users: *$*, *NT Authority*, *\System*, -\-, -,\,*ANONYMOUS LOGON*
a. Include Statement – Includes operations Interactive Logon, Remote Interactive Logon, All Directory Authentications, All Failed Logons

Member Server Groups

Logon Server:

a. Exclude Noise Users Statement - Excludes Users: *$*, *NT Authority*, *\System*, -\-, -,\,*ANONYMOUS LOGON*

b. Include Statement: Includes the operations Interactive Logon, Remote Interactive Logon, All Failed Logons

Removable Device:

a. Exclude Noise Events Statement: Excludes the operation – Write Attribute
b. Include Statement: Includes all operations

SAM:

a. Exclude Noise Users Statement - Excludes Users: *$*, *NT Authority*, *\System*, -\-, -,\,*ANONYMOUS LOGON*

a. Exclude Modify Object Statement – Excludes the Modify Object operation
b. Include Statement – Includes all operations

Workstation Groups

Logon Server:

a. Exclude Noise Users Statement - Excludes Users: *$*, *NT Authority*, *\System*, -\-, -,\,*ANONYMOUS LOGON*

b. Include Statement – Includes the operations Interactive Logon, Remote Interactive Logon, All Failed Logons

Removable Device:

a. Exclude Noise Events Statement – Excludes the operation Write Attribute
b. Include Statement – Includes all operations

SAM:

a. Exclude Noise Users Statement - Excludes Users: *$*, *NT Authority*, *\System*, -\-, -,\,*ANONYMOUS LOGON*

b. Exclude Modify Object Statement – Excludes the Modify Object operation
c. Include Statement – Includes all operations

Windows Agent Groups

Active Directory:

a. Exclude Noise Users Statement - Excludes Users: *$*, *NT Authority*, *\System*, -\-, -,\,*ANONYMOUS LOGON*

b. Exclude Modify Object Statement – Excludes the Modify Object operation
c. Include Statement – Includes all operations

Group Policy:

a. Include Statement – Includes all operations

Logon Server:

a. Exclude Noise Users Statement - Excludes Users: *$*, *NT Authority*, *\System*, -\-, -,\,*ANONYMOUS LOGON*

b. Include Statement – Includes the operations Interactive Logon, Remote Interactive Logon, All Directory Authentications, All Failed Logons

Removable Device:

a. Exclude Noise Events Statement – Excludes the operation Write Attribute
b. Include Statement – Includes all operations

Manager Groups

Active Directory:

a. Exclude Noise Users Statement - Excludes Users: *$*, *NT Authority*, *\System*, -\-, -,\,*ANONYMOUS LOGON*

b. Exclude Modify Object Statement – Excludes the Modify Object operation
c. Include Statement – Includes all operations

Group Policy:

a. Include Statement – Includes all operations

Logon Server:

a. Exclude Noise Users Statement - Excludes Users: *$*, *NT Authority*, *\System*, -\-, -,\,*ANONYMOUS LOGON*

b. Include Statement – Includes the operations Interactive Logon, Remote Interactive Logon, All Directory Authentications, All Failed Logons

Removable Device:

a. Exclude Noise Events Statement – Excludes the operation Write Attribute
b. Include Statement – Includes all operations

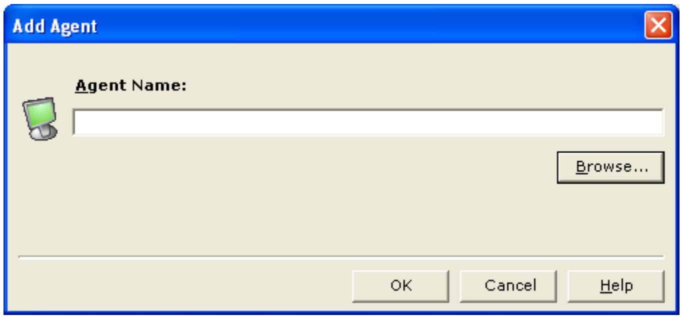
Adding Agents to Agent Groups

To add an Agent to a Windows Agent Group, choose one of the following:

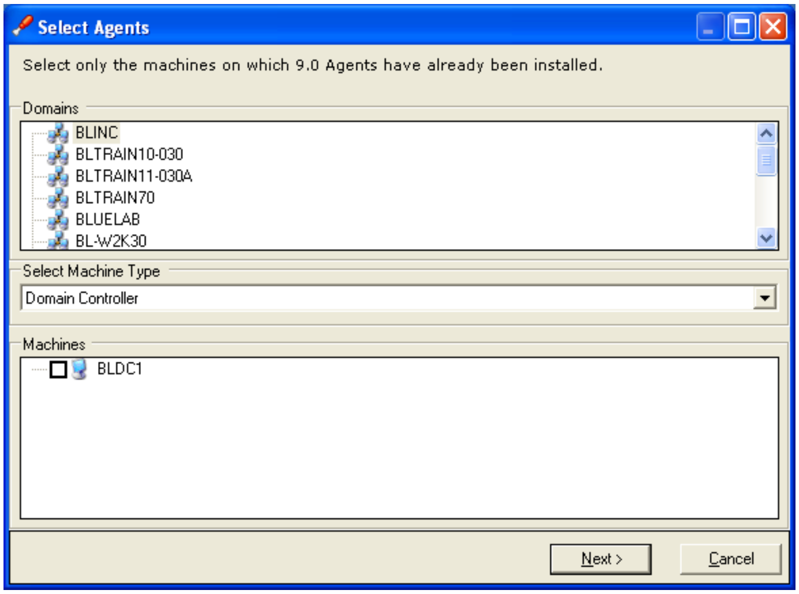
1. Click on System →New → **Agent** OR
2. Click on the toolbar icon **Agent** OR
3. Right click on Agent Group.
4. Click Agent.
5. Provide the IP address or the machine name of the Agent that needs to be added.
6. The machine must already have the Agent installed, be running, and be a free Agent in order to be added to an Agent Group.

To browse for Agents:

1. Right click on the Agent group to which you would like to add Agents.
2. Select Agent from the menu. The following form will appear:



3. Click the Browse button. The following selection form will appear:



Select only the machines on which 9.0 Agents have already been installed.

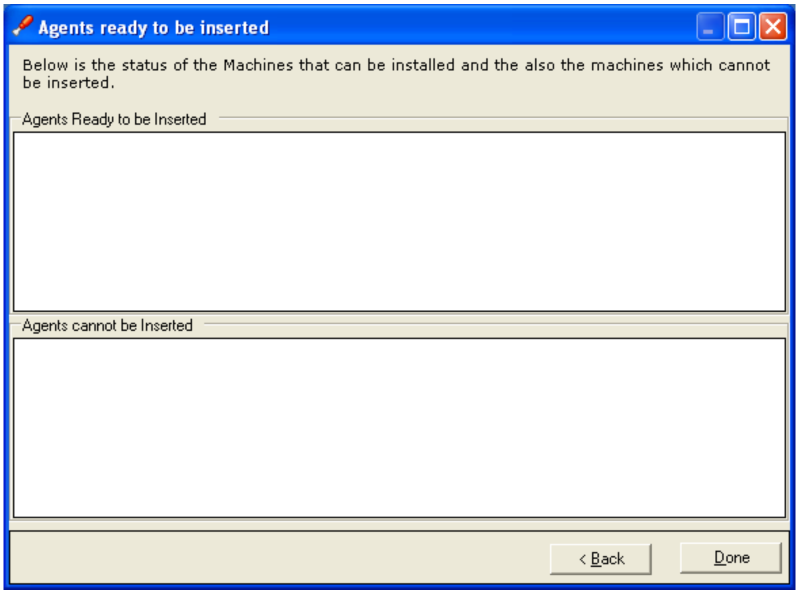
Domains
- BLINC
- BLTRAIN10-030
- BLTRAIN11-030A
- BLTRAIN70
- BLUELAB
- BL-W2K30

Select Machine Type: Domain Controller

Machines
- □ BLDC1

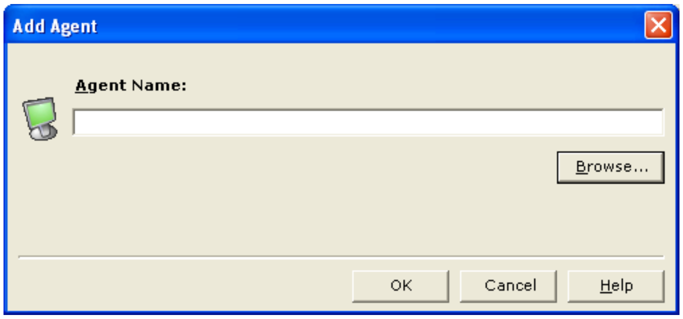
4. Select a domain or machine type. The field titled Machines will become populated with machines available for addition.
5. Check the box next to each machine you would like to add
6. Click Next.

A field will appear listing the machines ready to be added, as well as any machines not available for addition.


Agents ready to be inserted
Agents Ready to be Inserted
Agents cannot be Inserted
< Back
Done

Below is the status of the Machines that can be installed and the also the machines which cannot be inserted.

7. Click **Back** to make any changes.
8. Click **Done,** if the list is satisfactory
9. The **Add Agent** form will appear again, with the selected Agents listed, separated by semicolons.



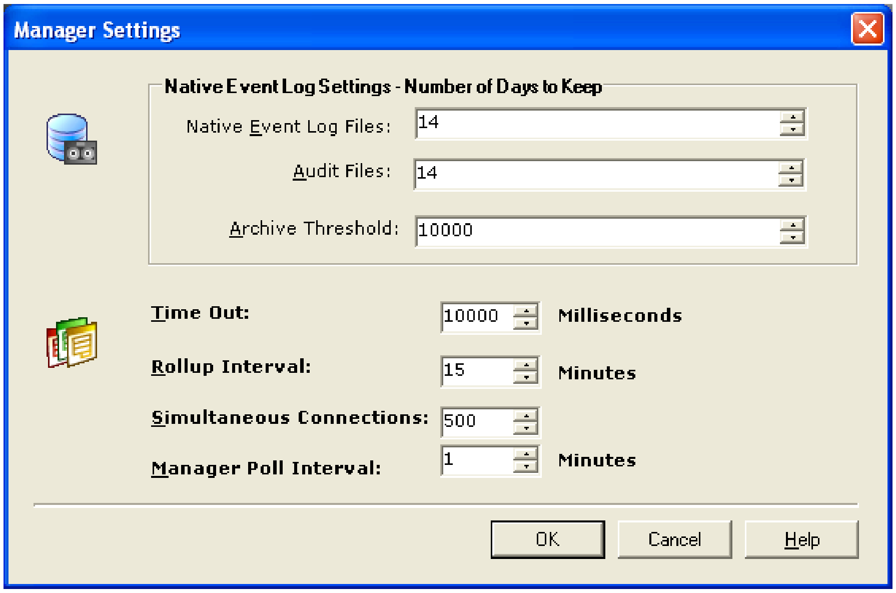
10. Click **OK.**
11. The Agents will be added to the chosen Agent Group.

Renaming Agent Groups

1. To rename a group, right click on the group.
2. Click **Edit**.
3. Provide the new name for the group and click Enter.

Modifying Manager Group Settings

1. Right click on the **Manager** Group.
2. Click **Manager** Settings.



Manager Settings

Native Event Log Settings - Number of Days to Keep

Native Event Log Files: 14

Audit Files: 14

Archive Threshold: 10000

Time Out: 10000 Milliseconds

Rollup Interval: 15 Minutes

Simultaneous Connections: 500

Manager Poll Interval: 1 Minutes

Number of days to keep Native Event Logs: This setting is used by the Manager to decide how long to keep the archived native event logs of the Manager and Agents. The default setting is 14 days. The minimum setting is 0 days and the maximum setting is 90 days.

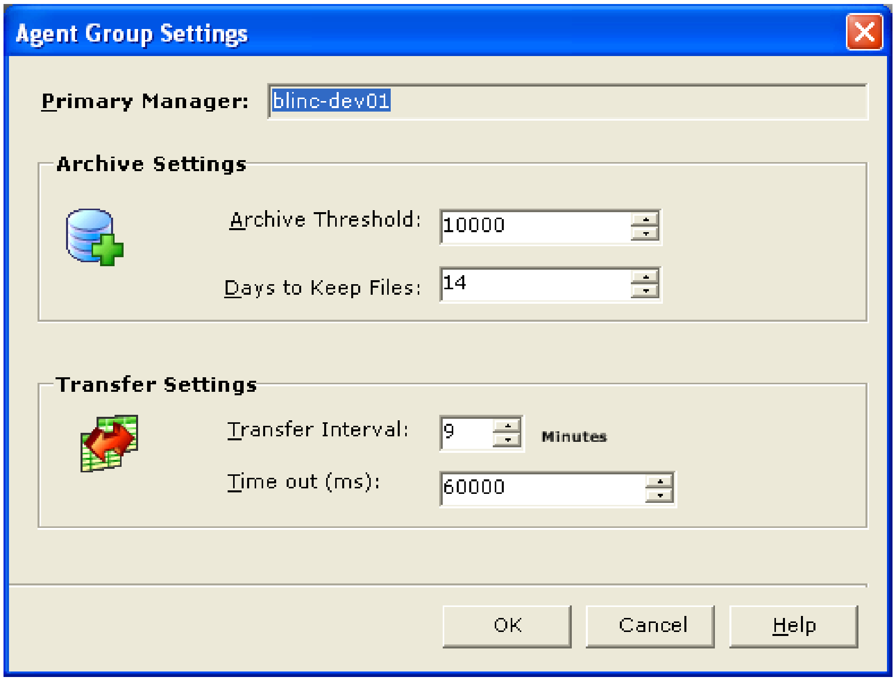
Rollup Interval: This setting is used by the Manager to determine the time that elapses between rollups. The default setting is 15 minutes. The minimum setting is 0 minutes and the maximum setting is 59 minutes.

Simultaneous Connections: This setting is used by the Manager as a threshold of connections. The Manager will reject all connections exceeding this setting. This setting is used by the Manager for load balancing. The default setting is 500 connections. The minimum setting is one connection. There is no maximum setting.

Manager Polling Interval: The Manager uses this interval to check with the workspace database to see if there are any policy changes for itself as well as the Agents that it manages. The default setting is one minute. The minimum setting is 0 minutes and the maximum setting is 15 minutes.

Modifying Agent Group Settings

1. Right click on the Agent Group.
2. Click Properties.



Agent Group Settings

Primary Manager: blinc-dev01

Archive Settings

Archive Threshold: 10000

Days to Keep Files: 14

Transfer Settings

Transfer Interval: 9 Minutes

Time out (ms): 60000

Archive Threshold: The Agent machine will create an archived file as soon as it reaches this threshold. The default setting is 10,000 records. The minimum setting is 1,000 records and the maximum setting is 10,000 records.

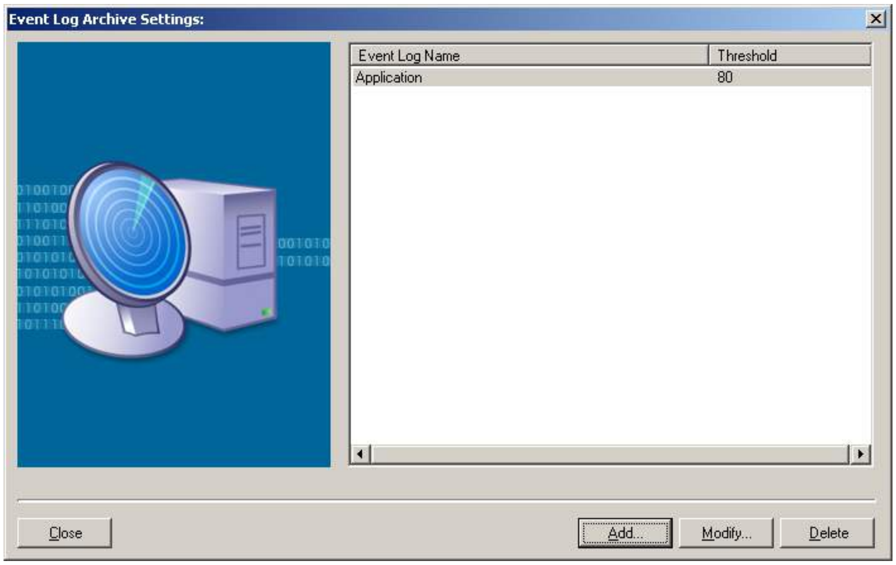
Days to Keep File: The Agent machine backs up archived files after they are sent over to the Manager. This setting decides how many days the Agent will continue to store the backed up files on the Agent machine. The default setting is 14 days. The minimum setting is 0 days and the maximum setting is 90 days.

Transfer Interval: The Agent machine can send archived data files over to the Manager on a regular interval. This setting is used to decide this interval. A setting of 0 disables the interval based data transfer and relies totally on job based data file transfers. The default setting is 15 minutes. The minimum setting is 0 minutes and the maximum setting is 59 minutes.

Time out: This setting determines the interval of time an Agent will attempt to establish a connection with the Manager. The default setting is 60,000 milliseconds. The minimum setting is 10,000 milliseconds and the maximum setting is 120,000 milliseconds.

Native Event Log Archive Settings

1. Right click on the **Manager** or **Agent Group**
2. Click on **Native Event Log** Archive Settings to show a list of all Native Event Logs that need to be archived at a specific percentage of their maximum settings.



Event Log Archive Settings:

Event Log Name	Threshold
Application	80

To add a new Native Event Log archive setting, choose one of the following:

1. Click **Add**
2. choose appropriate name from list OR
3. Type in the Name
4. Click **OK**.

To modify a NEL archive setting

1. Select the Event Log Name
2. Click Modify
3. Change the data.
4. Click OK.

To delete a NEL archive setting

1. Select the Event Log Name
2. Click Delete. The system will ask for confirmation.
3. Click Yes.

Archive Threshold: Provide the threshold percentage. The default setting is 80 percent. The minimum setting is 15 percent and the maximum setting is 95 percent.

Modify the Threshold: Choose the event log, click modify, change the threshold.

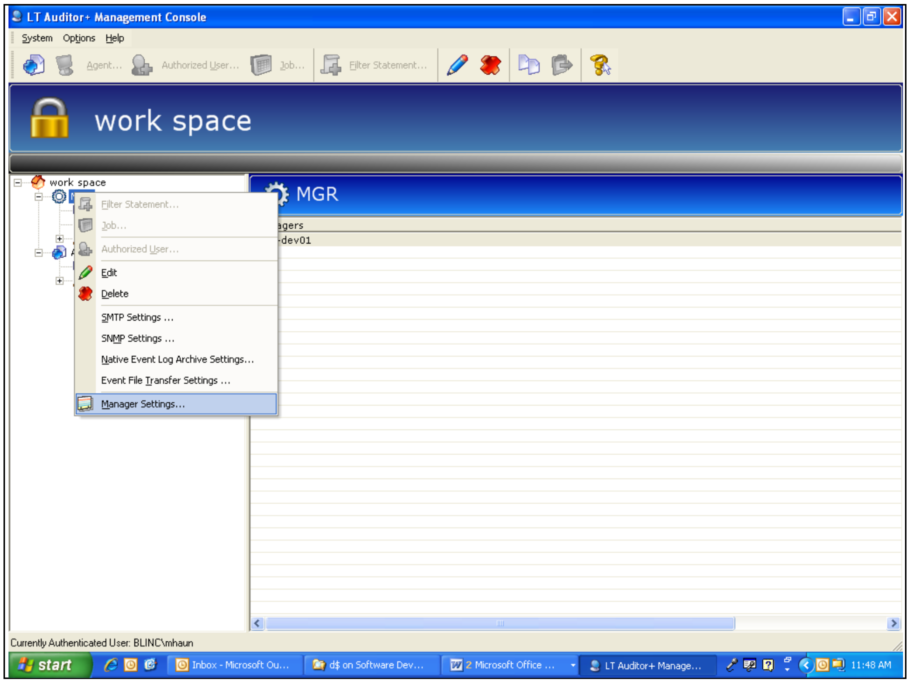
Delete the Threshold: Choose the event log, click delete, and confirm by clicking yes.

Event Log Threshold

This setting allows for the archiving of event logs based on specified thresholds. Archiving of event logs will create a copy of the log, locally, which will then be processed by LT Auditor+. For extremely busy servers, setting a threshold, to force archives should be considered to not lose audit data due to standard event log overwrite settings.

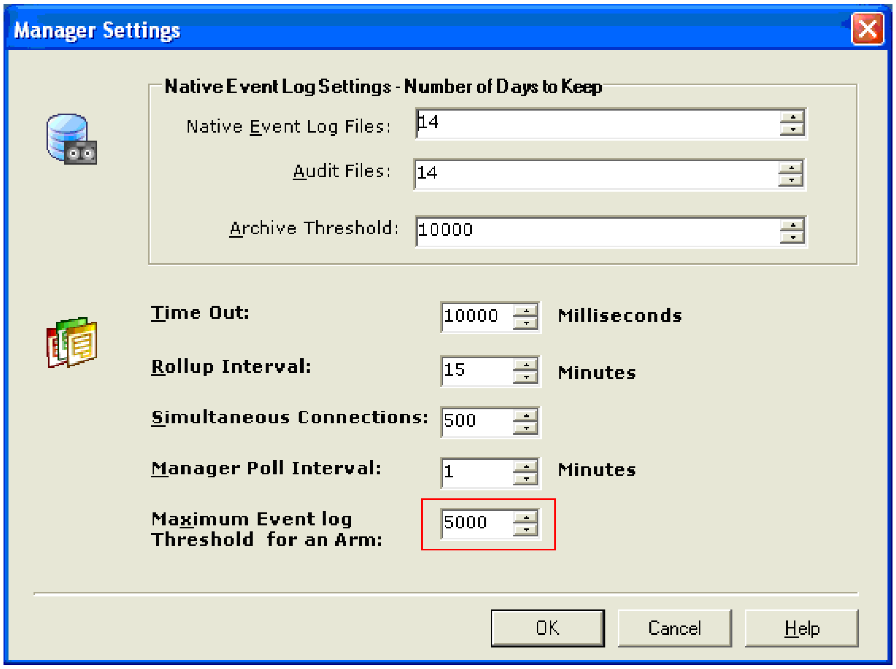
To apply threshold limitations through the Manager:

a. Right click on the Manager node in the left pane of the **Management Console**
b. Select Manager Settings from the drop down menu.



c. Provide a number of events in the Maximum Event Log Threshold for an Arm field. The default setting is 5,000 events. The minimum setting is 5,000 events and the maximum setting is 100,000 events.
d. Click **OK** once the desired setting has been entered.

The settings will take effect the next time the Manager polls the database for policy changes. This is dependent on the Poll Interval setting.



Manager Settings

Native Event Log Settings - Number of Days to Keep

Native Event Log Files: 14

Audit Files: 14

Archive Threshold: 10000

Time Out: 10000 Milliseconds

Rollup Interval: 15 Minutes

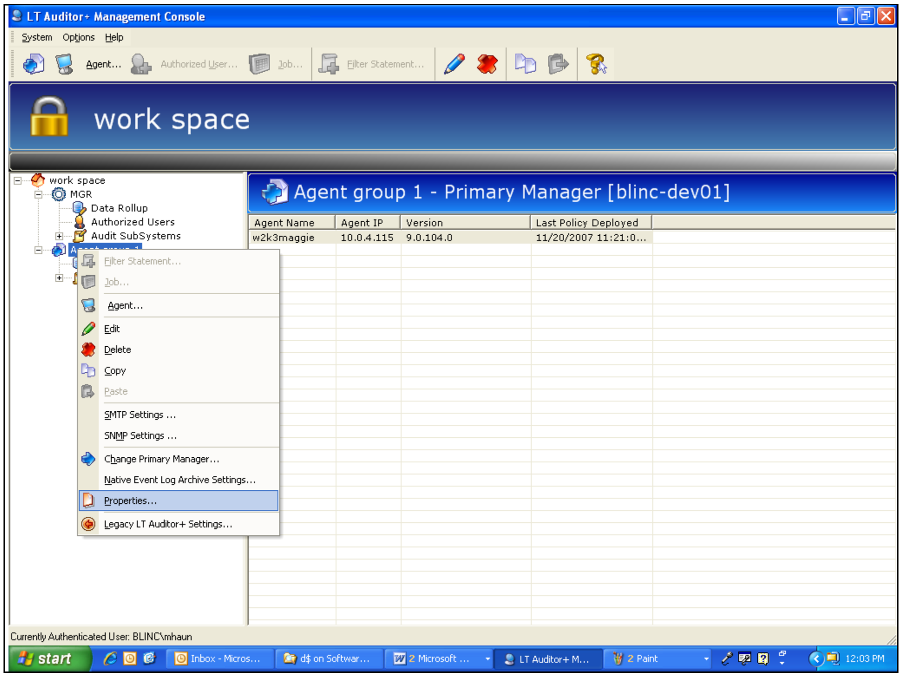
Simultaneous Connections: 500

Manager Poll Interval: 1 Minutes

Maximum Event log Threshold for an Arm: 5000

To apply threshold limitations through an Agent Group:

1. Right click on the Agent Group node in the left pane of the Management Console
2. Select Properties from the drop down menu.



LT Auditor+ Management Console

work space

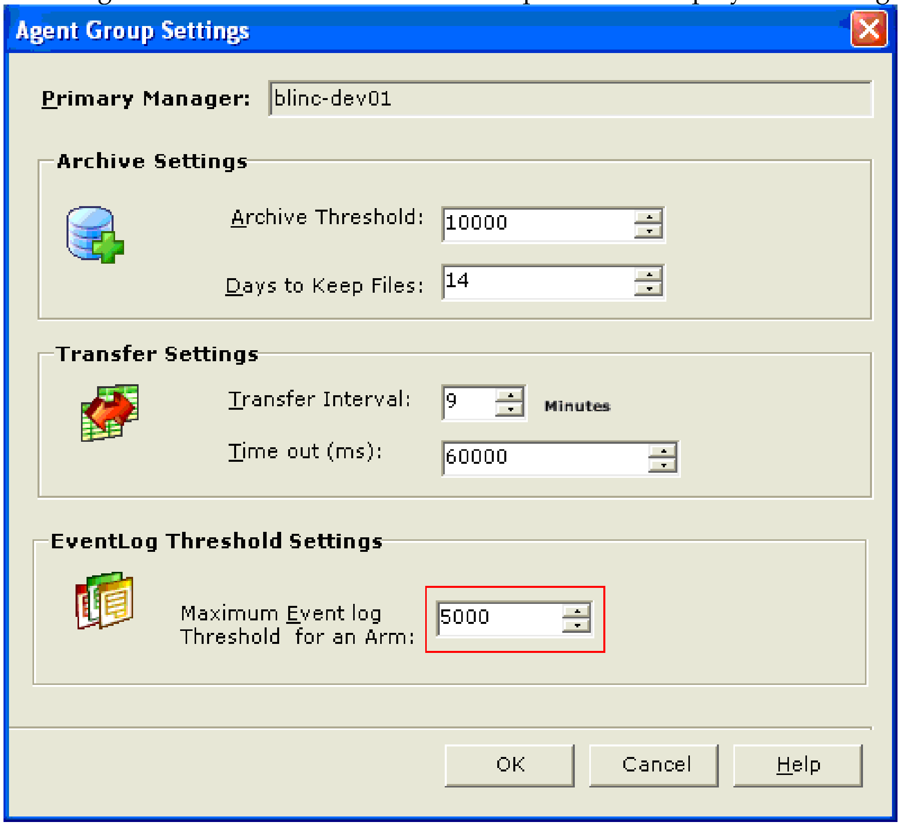
Agent group 1 - Primary Manager [blinc-dev01]

Agent Name	Agent IP	Version	Last Policy Deployed
w2k3maggie	10.0.4.115	9.0.104.0	11/20/2007 11:21:0...

Currently Authenticated User: BLINC\mhaun

3. Provide a number of events in the Event Log Threshold Settings field. The default setting is 5,000 events. The minimum setting is 5,000 events and the maximum setting is 100,000 events.
4. Click OK once the desired setting has been entered.

The settings will take effect the next time that policies are deployed to the Agents.



Agent Group Settings

Primary Manager: blinc-dev01

Archive Settings

Archive Threshold: 10000

Days to Keep Files: 14

Transfer Settings

Transfer Interval: 9 Minutes

Time out (ms): 60000

EventLog Threshold Settings

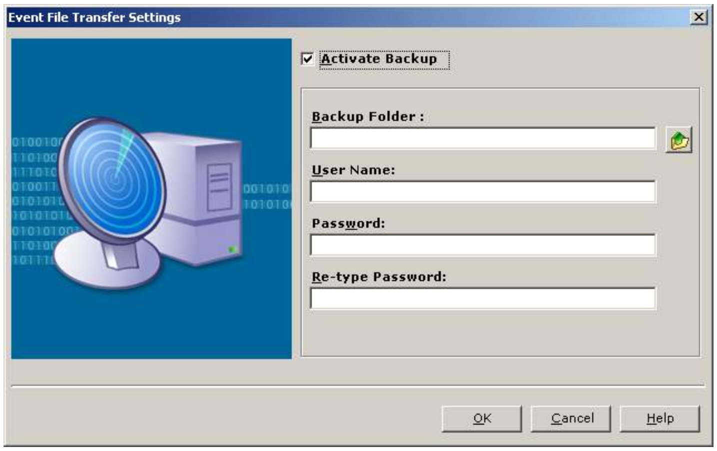
Maximum Event log Threshold for an Arm: 5000

Event File Transfer Settings

LT Auditor+ has the capability to archive Native Event Logs onto a local disk through Agents/Managers. Given that the size of archive data is not limited, there is an increasing probability of issues resulting in a filled disk or not enough disk space. Event file transfer allows the ability to compress and move this data to another physical location. The Manager has the capability to compress and move these backup files onto another file server or shared folder. This feature should be configurable in terms of shared folder path and user's credentials to access this folder. Data will be archived whenever rollup occurs.

To Launch the Event File Transfer Settings:

1. Click on **Options** → **Event File Transfer Settings.** Following screen will be displayed.



1. To activate transfer settings, check Activate Backup.

Backup Folder: The user should designate the backup folder in which the files will reside once transferred.
User Name and Password: This is the user name and password that the user enters to connect to the shared folders or network.

Chapter 3 - Audit Policies

Configuring LT Auditor+ Audit Policies

Common Filter Settings

To create any new Active Directory filter, Group Policy filter, file system filter, logon server filter, or Native Event Log filter, begin by highlighting the chosen subsystem in the left pane of the Management Console. Then select one of the following:

1. Click **System → New → Filter Statement**

   OR

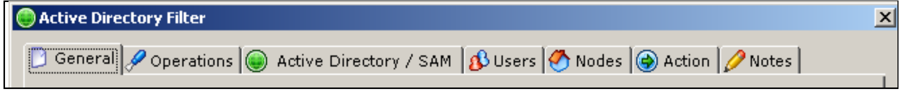
2. Click **Filter Statement** on the toolbar icon

   OR

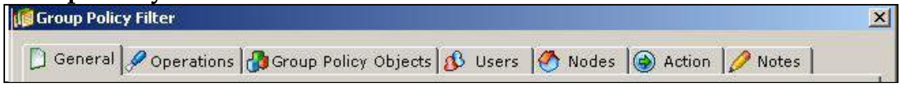
3. Right click on the chosen subsystem, then click **Filter Statement**

Given below are the samples of the tabs for the various auditing filters:

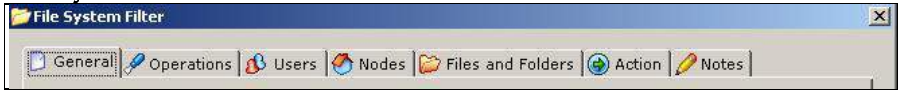
Active Directory Filter:



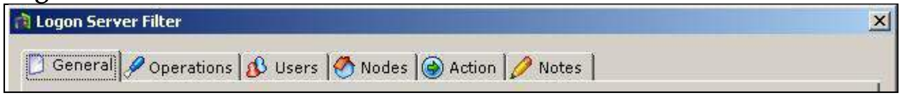
Group Policy Filter:



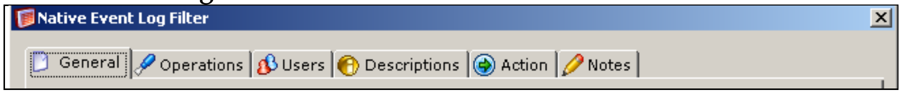
File System Filter:



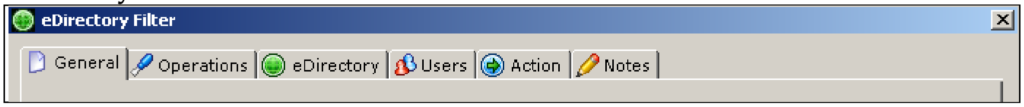
Logon Server Filter:



Native Event Log Filter:

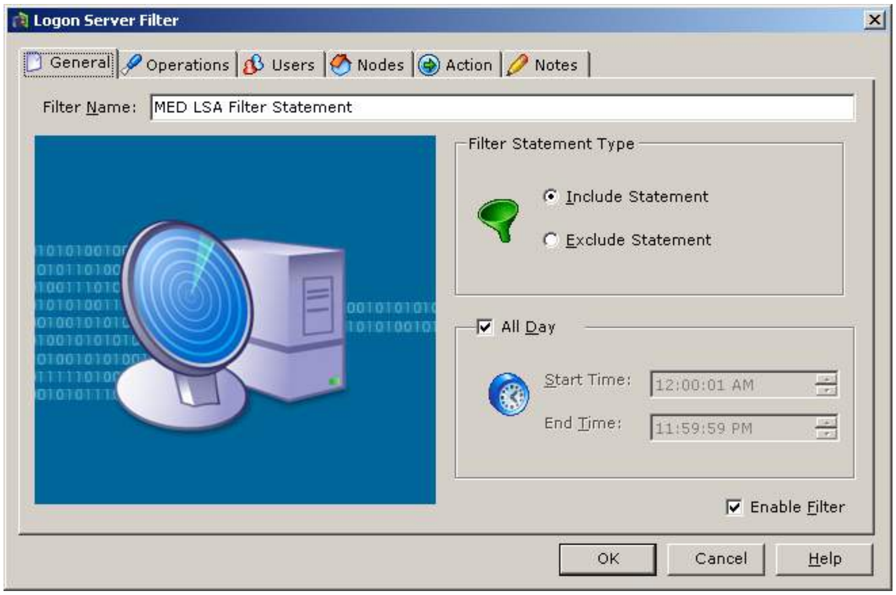


eDirectory Filter



Logon Server Filter

General Settings



Filter Name: MED LSA Filter Statement

Filter Statement Type

● Include Statement

○ Exclude Statement

☑ All Day

Start Time: 12:00:01 AM

End Time: 11:59:59 PM

☑ Enable Filter

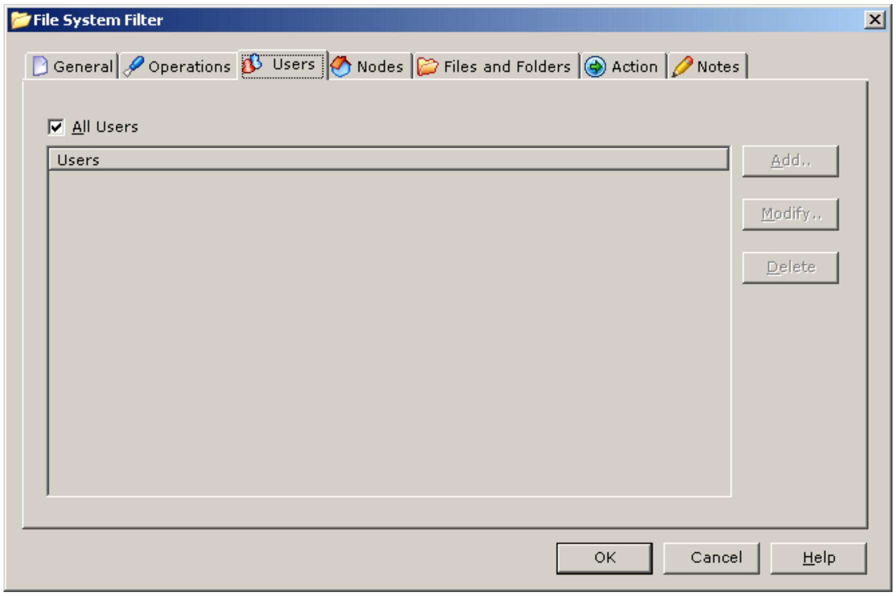
Filter Name: Provide a name to identify the filter statement from a collection of filters that have been created.

Filter Statement Type: **Include Statement** audits a particular operation only if all of the filter criteria is met. **Exclude Statement** rejects a particular operation and does not audit if any of filter criteria is met.

All Day: Each filter statement can be modified with a time the statement would be active. Select **All Day** to have filter statement active for the entire day, or select a specific start time and end time to determine when the filter statement will be active.

Enable Filter: To completely disable the filter settings, un-check the **Enable Filter.**

User Settings



☑ All Users

Users

All Users:

To audit all users performing any active directory operation:

1. Select **All Users**.
2. To monitor specific user accounts, uncheck **All Users**
3. Click Add. Provide the user names to be audited.

NOTE

A wildcard (*) may be used.

4. Click **OK**.

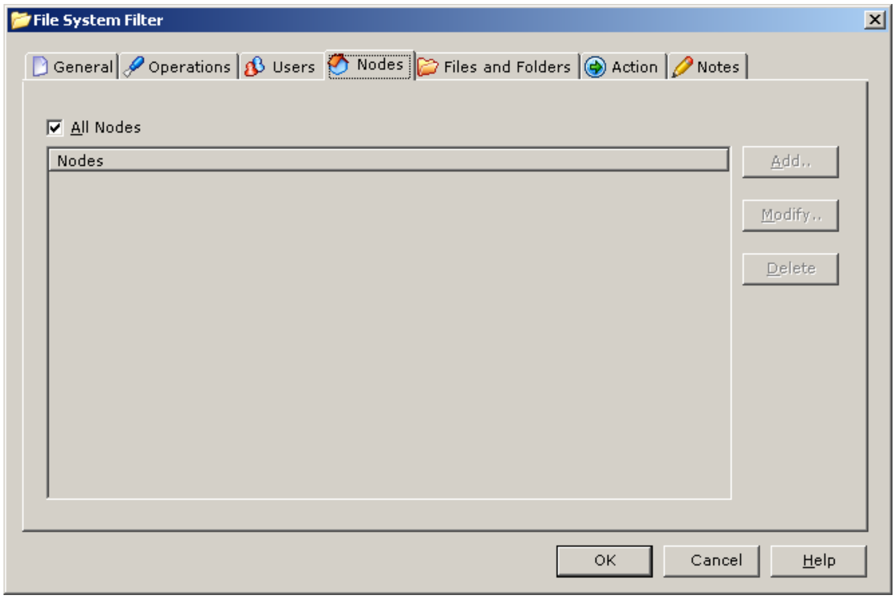
To modify a user:

5. Highlight the user, click **Modify**.
6. Change the user data, click **OK**.

To delete a user:

7. Highlight the user
8. Click **Delete**. The system will ask you for confirmation.
9. Click **Yes**.

Node Settings



☑ All Nodes

Nodes

All Nodes:
To audit all specific workstations from which active directory operations are performed

1. Select **All Nodes**.
2. To monitor specific nodes, uncheck **All Nodes**
3. Click **Add**.
4. Provide the specific nodes to be audited.
5. Click **OK**.

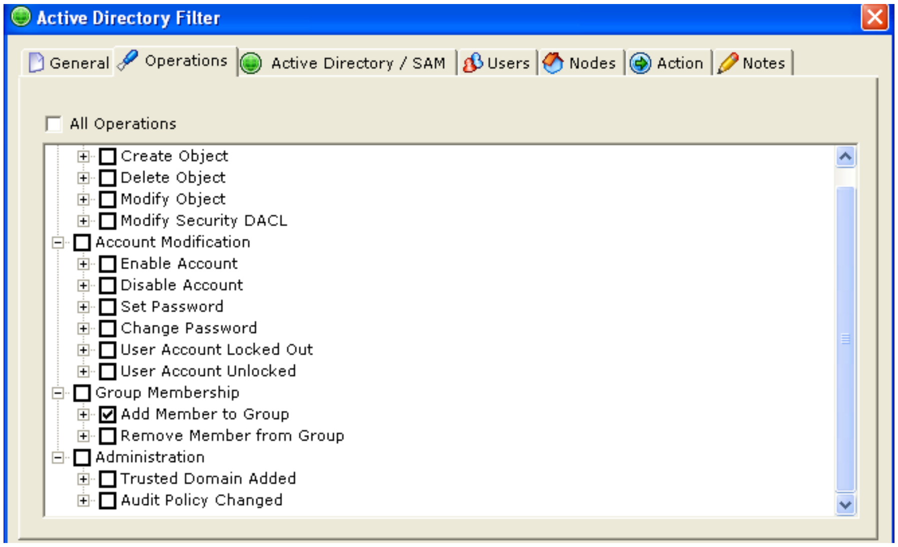
To modify a Node:

1. Highlight the node
2. Click **Modify**.
3. Change the Node data
4. Click **OK**.

To delete a Node

1. Highlight the node
2. Click **Delete**. The system will ask you for confirmation.
3. Click **Yes**.

Operations Settings



□ All Operations

- □ Create Object
- □ Delete Object
- □ Modify Object
- □ Modify Security DACL
- □ Account Modification
  - □ Enable Account
  - □ Disable Account
  - □ Set Password
  - □ Change Password
  - □ User Account Locked Out
  - □ User Account Unlocked
- □ Group Membership
  - ☑ Add Member to Group
  - □ Remove Member from Group
- □ Administration
  - □ Trusted Domain Added
  - □ Audit Policy Changed

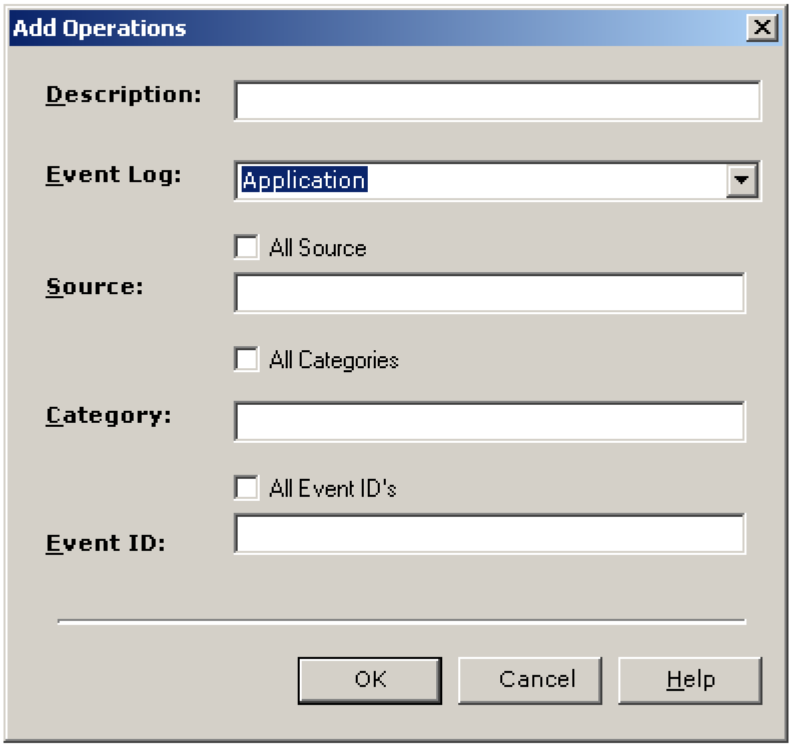
1. Select **All Operations** to audit all subsystem operations.
2. To select specific operations of interest, uncheck **All Operations**
3. Select the appropriate operation(s) to audit.

NOTE

Operations will vary between subsystems but the method of selection will remain the same in all subsystems with the exception of the Native Event Log operations filter, whose method is described below.

Native Event Log Operations:

1. Select the appropriate event to be monitored. A single filter can monitor from any of the six standard event logs in Windows or any newly created event log on the machine.
2. Click **Add** to add a new Native Event Log operation. The following screen will open:



Add Operations

Description:

Event Log: Application

□ All Source

Source:

□ All Categories

Category:

□ All Event ID's

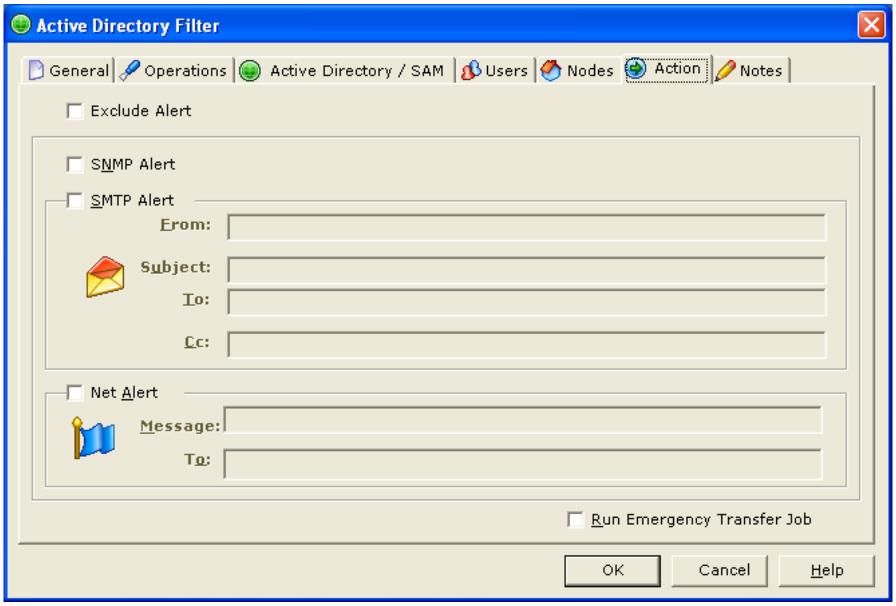
Event ID:

Each Native Event Log operation is made of the event log name, source name, category of the event, and the actual event number.

Provide a description of the new event:

1. Select a **Native Event** log type.
2. Select either **All Source** or provide the name of the source to be audited.
3. Select either **All Categories** or provide a name of the category to be audited.
4. Select either **All Event IDs** or provide the specific event ID to be audited.

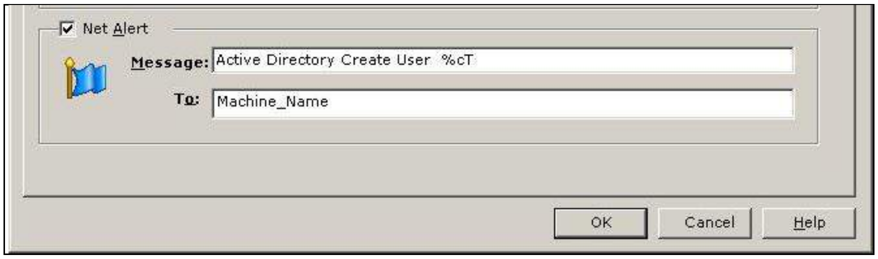
Action Settings



Each included filter statement can be configured to send out real time alerts if the filter criteria are met in the form of SNMP messages, e-mail alerts, or regular Windows messages. By checking the **Exclude Alert** box, specific users can be excluded from receiving alerts for the same event which is defined for all users.

- To send **SNMP** messages, check **SNMP Alert**.
- To send **e-mail** alerts, check **SMTP Alert**.

Provide the following information in the SMTP form: From, Subject (of the message), To and CC. The **To** and the **CC** lists of addresses should be separated by semicolons.

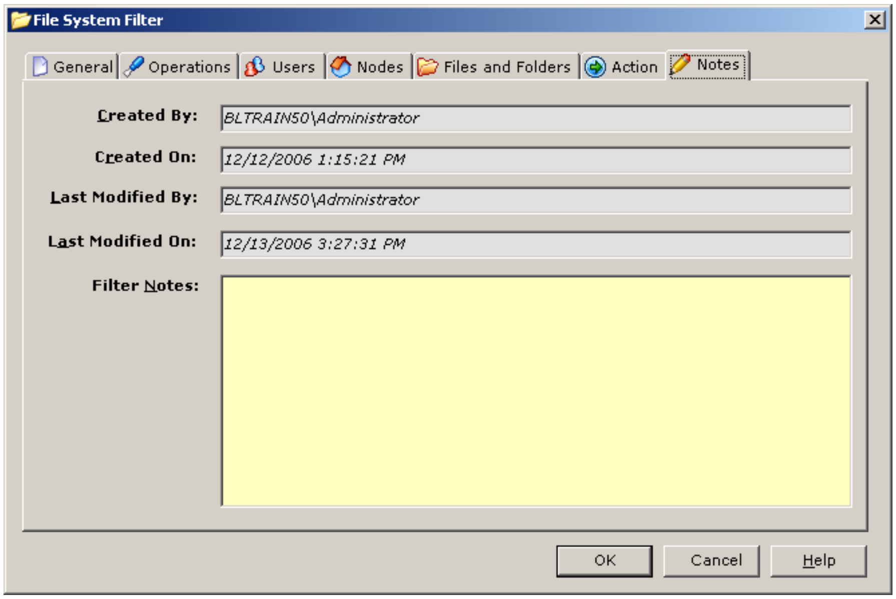


Message: Active Directory Create User %cT

To: Machine_Name

To send a **Windows Messenger Alert**, check **Net Alert** (Net Alert works only for Windows XP and Windows 2003)
Provide the following information in the Net Alert form: **Message** is customized text followed by **%cT** (see example above); **To** is the machine name or IP address the Net Alert should be sent to.

Notes



Created By: BLTRAIN50\Administrator

Created On: 12/12/2006 1:15:21 PM

Last Modified By: BLTRAIN50\Administrator

Last Modified On: 12/13/2006 3:27:31 PM

Filter Notes:

The program will automatically keep track of the filter creator, date, filter Modifier, and date it was modified. The filter notes field is provided for the user to track why the filter was created or modified.

Filter Settings specific to a Subsystem

To create a new filter statement for a category specific to a subsystem (i.e. Active Directory/SAM, eDirectory), highlight your chosen auditing arm in the audit subsystem tree in the left pane of the Management Console, then select one of the following:

1. Click **System** → **New** → **Filter Statement**

   OR

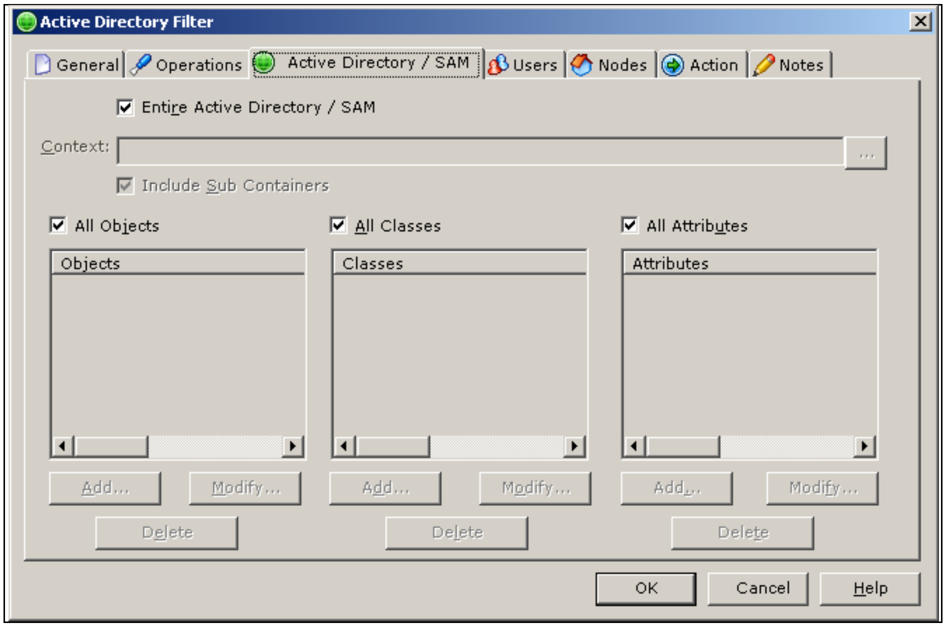
2. Click **Filter Statement** on the toolbar icon.

   OR

3. Right click on the **Active Directory Subsystem**, and then click **Filter Statement**

Select the tab specific to that subsystem and follow the instructions below to configure that setting.

Active Directory / SAM Settings – Active Directory Filter



☑ Entire Active Directory / SAM

Context:

☑ Include Sub Containers

☑ All Objects

☑ All Classes

☑ All Attributes

Entire Active Directory / SAM:

To audit the entire active directory on a domain controller, or to audit the local Windows accounts on a standalone machine, select **Entire Active Directory / SAM**.

Context: If the **Entire Active Directory / SAM** option is not checked, the context field will become active. Select the ellipse **[…]** to browse for the container in the active directory forest that needs to be monitored.

Include Sub Containers: If this is selected, LT Auditor+ will monitor the container specified in the context field and all the sub containers within it. To monitor only the container specified, but not the sub containers, uncheck this option.

Objects:

1. To audit all objects, select **All Objects**.
2. To audit specific objects, uncheck **All Objects**.
3. Click **Add.**
4. Provide description of the object(s) to be audited. Utilizing a wildcard '*' will specify any part of the object name. For example, cn=john* will audit any object containing the string cn=john.
5. Click **OK**.

To modify the object

1. Highlight the object in the list
2. Click **Modify**.
3. Edit the object data.
4. Click **OK**.

To delete the object

1. Highlight the object in the list
2. Click **Delete**. The system will ask you for confirmation.
3. Click **Yes**.

Classes:

To audit all classes:

1. Select **All Classes**.
2. To audit specific classes within the active directory, uncheck **All Classes**.
3. Click **Add**.
4. Provide the description of the class to be audited. A wildcard '*' can be used.
5. Click **OK**.

To modify the class:

1. Highlight the class in the list
2. Click **Modify**.
3. Edit the **class data**.
4. Click **OK**.

To delete the class:

1. Highlight the class in the list
2. Click **Delete**. The system will ask you for confirmation.
3. Click **Yes**.

Attributes:

1. To audit all attributes:
2. Select **All Attributes**.
3. Uncheck **All Attributes** to audit specific attributes within the active directory.
4. Click **Add**.
5. Provide the description of the attribute(s) to be audited. A wildcard '*' can be used.
6. Click **OK**.

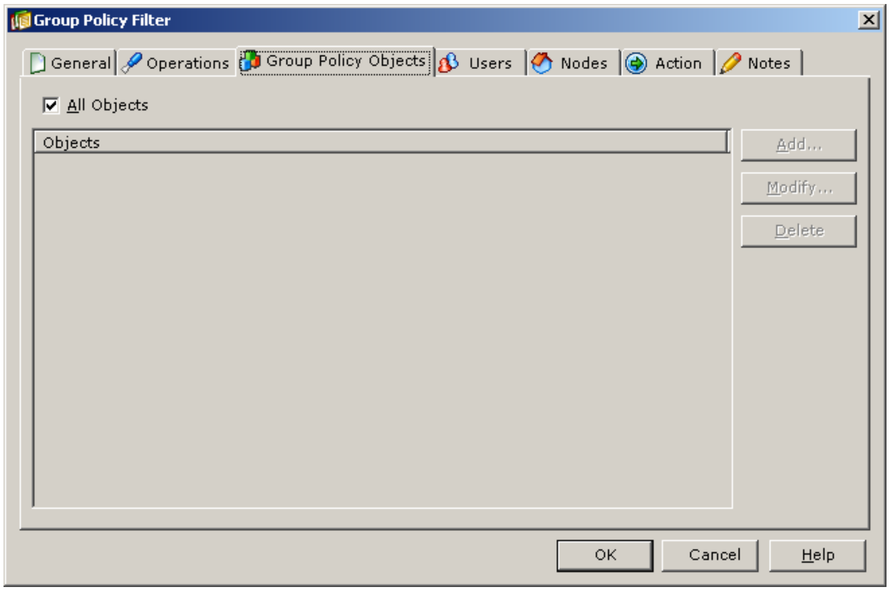
To modify the attribute:

1. Highlight the attribute in the list, click **Modify**.
2. Edit the attribute data.
3. Click **OK**.

To delete the attribute:

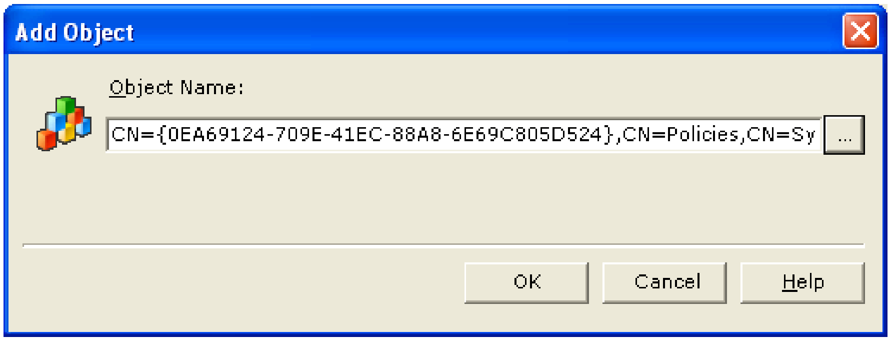
1. Highlight the attribute in the list
2. Click **Delete** when prompted for confirmation.
3. Click **Yes**.

Group Policy Objects Settings – Group Policy Filter



Group Policy Filter

☑ All Objects

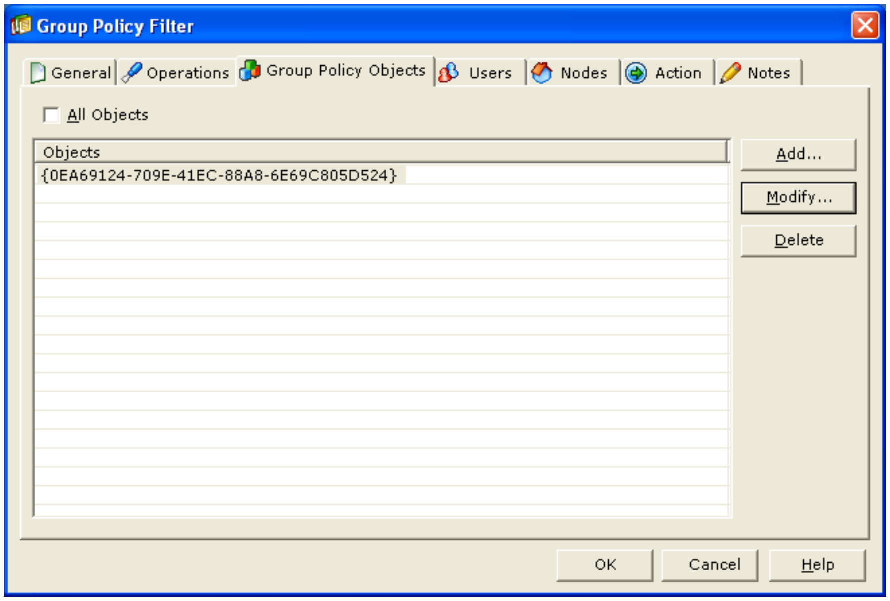


Add Object

Object Name: CN={0EA69124-709E-41EC-88A8-6E69C805D524},CN=Policies,CN=Sy

All Objects:

1. To audit all the Group Policy objects within the Active Directory, Select **All Objects**.
2. To audit specific Group Policy objects within the Active Directory, Uncheck **All Objects**
3. Click **Add**.
4. Browse through the Active Directory to locate Group Policy objects within the Active Directory.
5. Click **OK**.



□ All Objects

Objects
{0EA69124-709E-41EC-88A8-6E69C805D524}

To modify Group Policy Objects

1. Highlight the object
2. Click **Modify**.

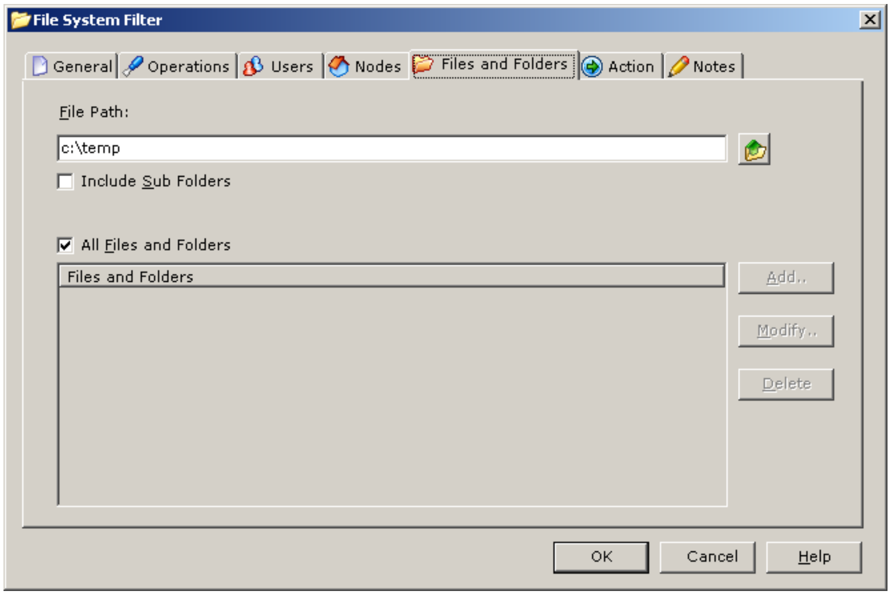
To edit the Group Policy Object data

1. Highlight the object
2. Click **OK**.

To delete Group Policy Objects

1. Highlight the object
2. Click **Delete**.
3. The system will ask you for confirmation, click **Yes**.

File / Folders Settings – File System Filter



File Path:
c:\temp

☐ Include Sub Folders

☑ All Files and Folders

File Path: Select the file system folder path to be monitored.

Include Sub Folder: To include all sub folders select **Include Sub Folders**. To monitor only the folders specified, but not the sub folders, uncheck this option.

Files and Folders:

1. To audit all files and folders within the specified file path:
2. Check **All Files and Folders**.
3. To audit specific files or folders from the file path, select **Add**.
4. Provide the complete address of the files or folders to be audited.

NOTE

A wildcard (*) may be used

To modify a file or folder:

1. Highlight the file or folder
2. Click **Modify**.
3. Change the file or folder data.
4. Click **OK**.

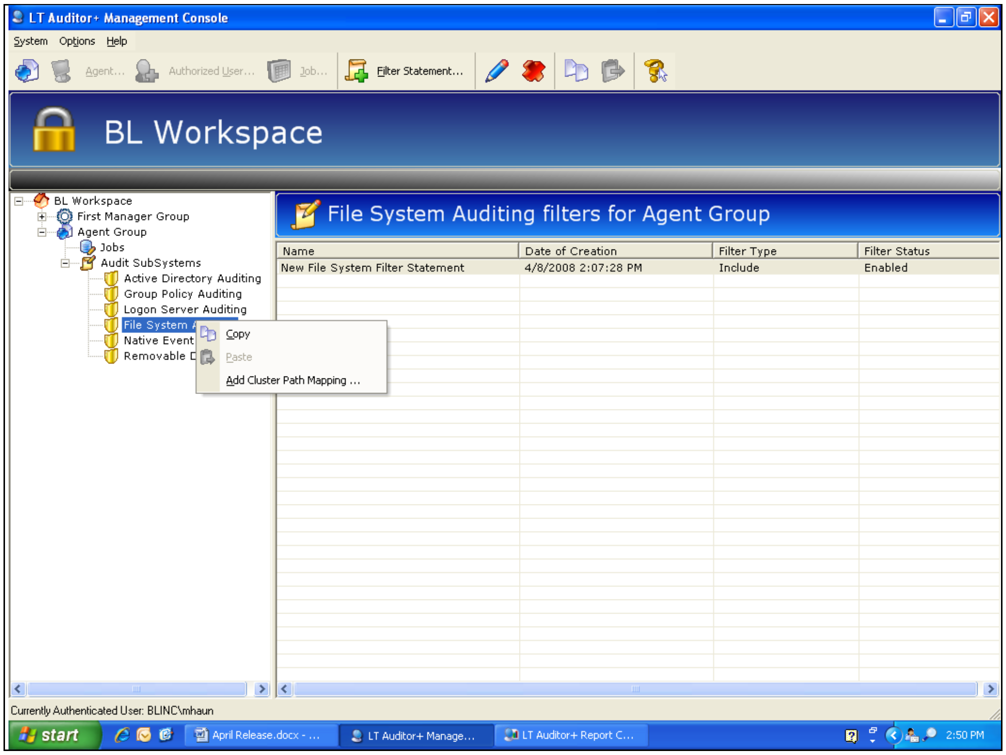
To delete a file or folder:

1. Highlight the file or folder
2. Click **Delete**.
3. The system will ask you for confirmation.
4. Click **Yes**.

Full support for clustered drive auditing is available. In order to configure support for clustered drives, the clustered and mounted drives on the system must be registered via the Management Console for the group containing the Agent with clustered drives.

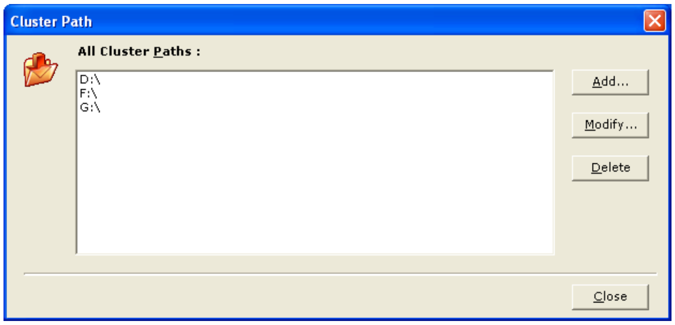
In order to register the clustered drives:

1. Right click on **File System Auditing.**
2. Select **Add Cluster Path Mapping.**



Name	Date of Creation	Filter Type	Filter Status
New File System Filter Statement	4/8/2008 2:07:28 PM	Include	Enabled

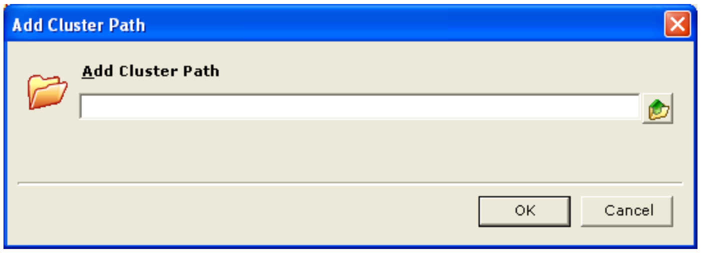
3. A window will open showing all existing mapped cluster paths.



D:\
F:\
G:\

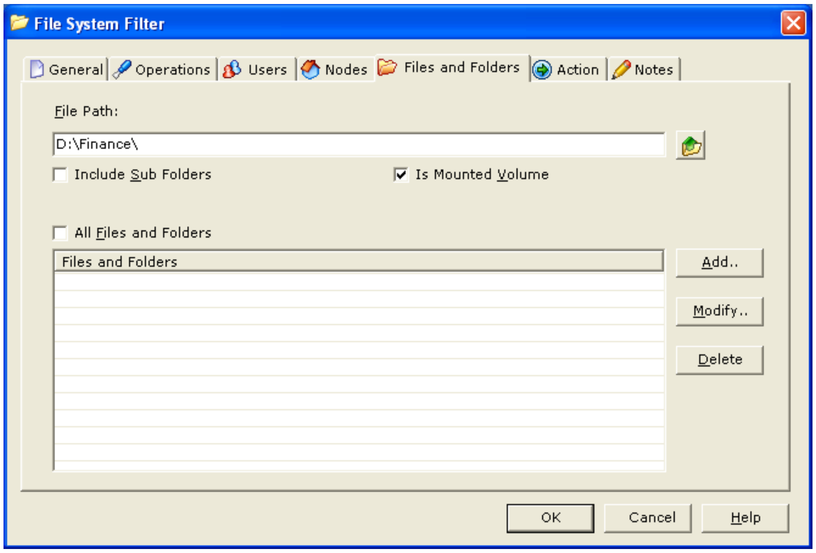
All clustered drives on which auditing is configured must be added to this list. For example, if **H:\finance** was a mounted drive, then it must be registered. However, **H:\finance\2003Qtr03Data** would not need to be registered as it is a subdirectory of the mounted drive root.

4. Click **Add** to add a new cluster path. The following window will be displayed as shown below :



5. Manually enter or browse for a cluster path.
6. Click **OK**.

When configuring a file system filter statement, enter a file path for auditing that includes a mapped cluster drive. If you are auditing a mounted drive, please check the **Is Mounted Volume** box. If you do not check this box, the entire drive will be audited instead of only the mounted drive.



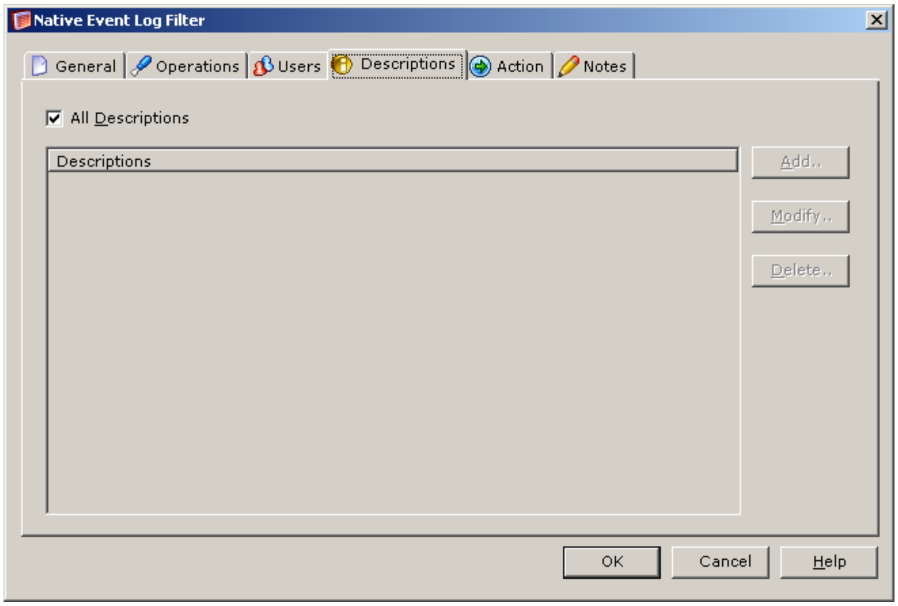
File Path: D:\Finance\

☐ Include Sub Folders ☑ Is Mounted Volume

☐ All Files and Folders

7. Configure the remainder of the filter statement as needed for auditing.

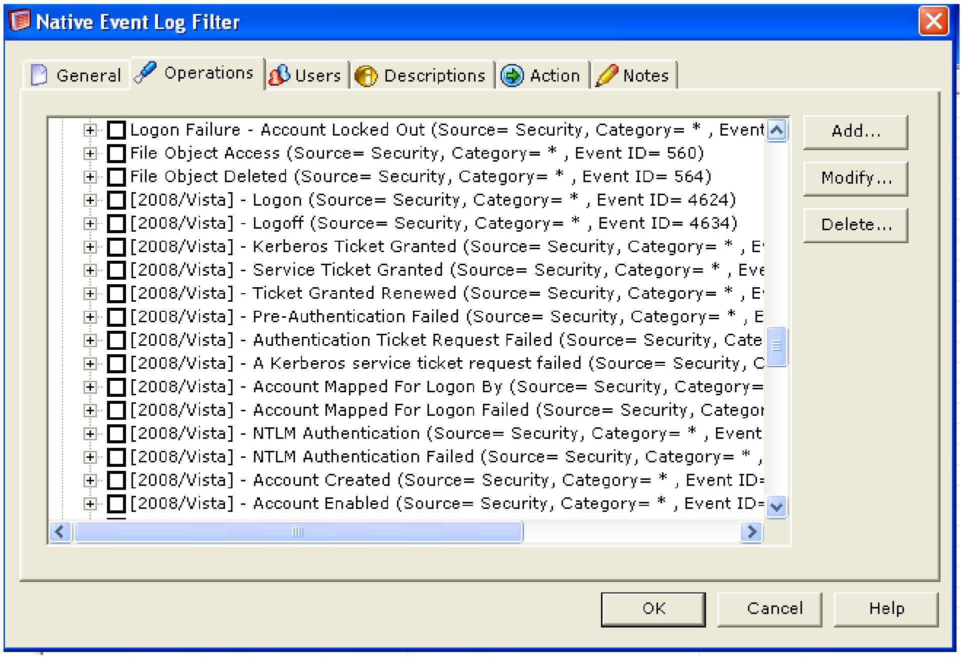
Description Settings – Native Event Log Filter



☑ All Descriptions

Operation Settings- Native Event Log

1. Select **All Operations** to audit all subsystem operations.
2. To select specific operations of interest, uncheck **All Operations**
3. Select the appropriate operation(s) to audit.



□ Logon Failure - Account Locked Out (Source= Security, Category= * , Event
□ File Object Access (Source= Security, Category= * , Event ID= 560)
□ File Object Deleted (Source= Security, Category= * , Event ID= 564)
□ [2008/Vista] - Logon (Source= Security, Category= * , Event ID= 4624)
□ [2008/Vista] - Logoff (Source= Security, Category= * , Event ID= 4634)
□ [2008/Vista] - Kerberos Ticket Granted (Source= Security, Category= * , E
□ [2008/Vista] - Service Ticket Granted (Source= Security, Category= * , Eve
□ [2008/Vista] - Ticket Granted Renewed (Source= Security, Category= * , E
□ [2008/Vista] - Pre-Authentication Failed (Source= Security, Category= * , E
□ [2008/Vista] - Authentication Ticket Request Failed (Source= Security, Cate
□ [2008/Vista] - A Kerberos service ticket request failed (Source= Security, C
□ [2008/Vista] - Account Mapped For Logon By (Source= Security, Category=
□ [2008/Vista] - Account Mapped For Logon Failed (Source= Security, Categor
□ [2008/Vista] - NTLM Authentication (Source= Security, Category= * , Event
□ [2008/Vista] - NTLM Authentication Failed (Source= Security, Category= * ,
□ [2008/Vista] - Account Created (Source= Security, Category= * , Event ID=
□ [2008/Vista] - Account Enabled (Source= Security, Category= * , Event ID=

All Descriptions:

To monitor all the description strings from the event log:

1. Select **All Descriptions**.
2. To monitor specific events from the event log with certain description strings in them:
3. Uncheck **All Descriptions**
4. Click **Add**.
5. Provide the description strings.
6. Click **OK**.

NOTE

A wildcard (*) may be used, for example, if you wanted to audit all failed applications, you would type failed applications *.

To modify a description:

1. Highlight the description
2. Click **Modify**.
3. Change the description data.
4. Click **OK**.

To delete a description:

1. Highlight the description
2. Click **Delete**.
3. The system will ask you for confirmation.
4. Click **Yes**.

Chapter 4 - Configuring Manager and Agent Jobs

This section will provide detailed steps to show you how to use the LT Auditor+ Management Console to configure the Agents to send data over to the Manager, and to configure the Manager to consolidate the data into the database.

Manager Data Rollup Job

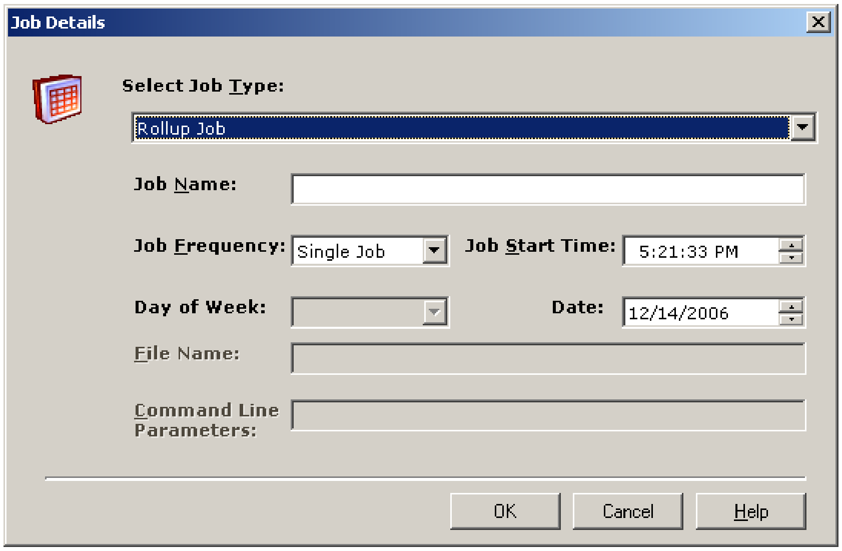
In addition to automated rollup settings described in the section Modified Group Setting, rollup jobs can be scheduled to transfer audit data to the LT Auditor+ database. Each Manager can be configured to perform multiple data rollup jobs, scheduled to run at a specific time and frequency.

To create a new Data Rollup Job:

1. Click **Data Rollup** node in a **Windows Manager Group**
2. Select one of the following:

   - Click **System** → **New** → **Job**

- Click **Job** on the toolbar
- Right click on **Data Rollup** and click **Job**



Job Details

Select Job Type: Rollup Job

Job Name:

Job Frequency: Single Job

Job Start Time: 5:21:33 PM

Day of Week:

Date: 12/14/2006

File Name:

Command Line Parameters:

Job Name: Provide the description of the job.

Job Frequency: Provide how often to run the job. Selection options are single, daily or weekly.

Job Start Time: Specify the time to start the job.

To set up a custom job:

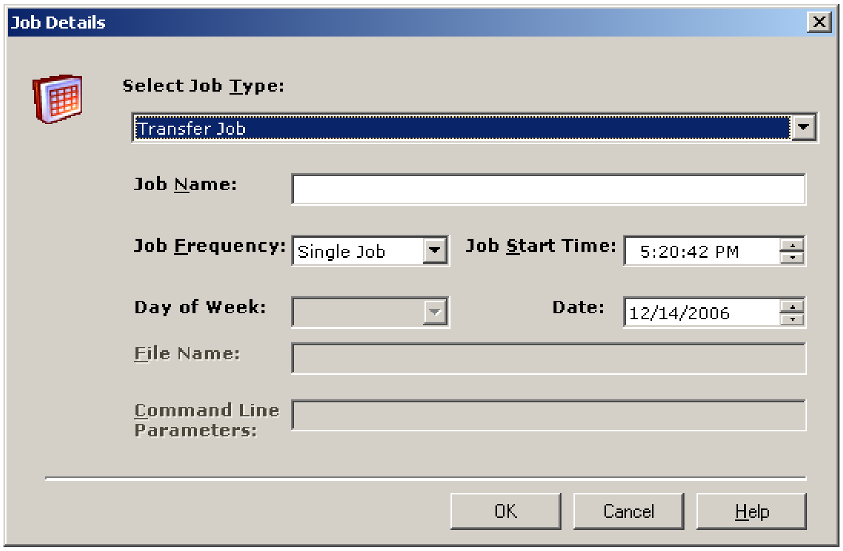
1. Select **Custom** from the drop down menu.
2. Select options to suit needs as necessary.

Agent Data Transfer Job

In addition to automated transfer settings described in the section Agent Group Setting, jobs can be configured to transfer audit data to the Manager. Each Agent Group can be configured to perform multiple data transfer jobs, scheduled to run at a specific time and frequency.

To create a new Data Transfer Job:

1. Click **Data Transfer** node in a Windows Agent Group
2. Select one of the following:
   - Click **System** → **New** → **Job**
   - Click **Job** on the toolbar
   - Right click on **Data Transfer**.
   - Click **Job**



Job Details

Select Job Type: Transfer Job

Job Name:

Job Frequency: Single Job

Job Start Time: 5:20:42 PM

Day of Week:

Date: 12/14/2006

File Name:

Command Line Parameters:

Job Name: Provide the description of the job.

Job Frequency: Provide how often to run the job. Selection options are single, daily or weekly.

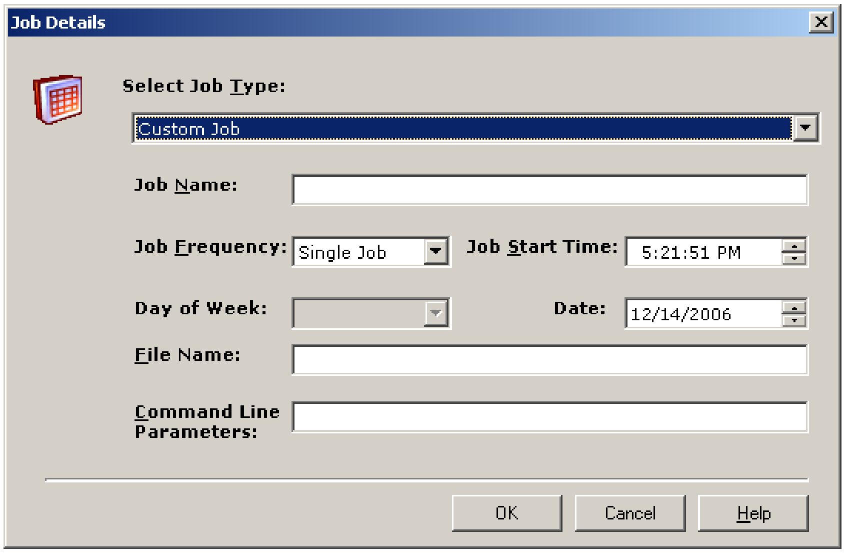
Job Start Time: Specify the time to start the job.

Custom Job

Custom jobs can setup to perform unique tasks like transferring miscellaneous files to the Manager.

To create a new Custom Data Transfer Job:

1. Click **Data Transfer** node in a Windows Agent Group
2. Select one of the following:
   - Click **System** → **New** →**Custom Job**
   - Click **Custom Job** on the toolbar.
   - Right click on **Data Transfer**. Click **Custom Job.**



Job Details

Select Job Type: Custom Job

Job Name:

Job Frequency: Single Job

Job Start Time: 5:21:51 PM

Day of Week:

Date: 12/14/2006

File Name:

Command Line Parameters:

Job Name: Provide the description of the job.

Job Frequency: Determine how often to run the job. Selection options are single, daily or weekly.
Job Start Time: Specify the time to start the job.
File Name: Provide the complete application name, i.e.: **C:\directory\filename**.
Command line: Provide the required parameters for the application.

NOTE

Run custom jobs under service privileges. Custom jobs should not require user input and should exit after completing the task.

Chapter 4 - Configure the LT Auditor+ Report Console

This section will provide detailed steps to show you how to use LT Auditor+ Report Console to create report queries and run reports on the consolidated data collected in the workspace.

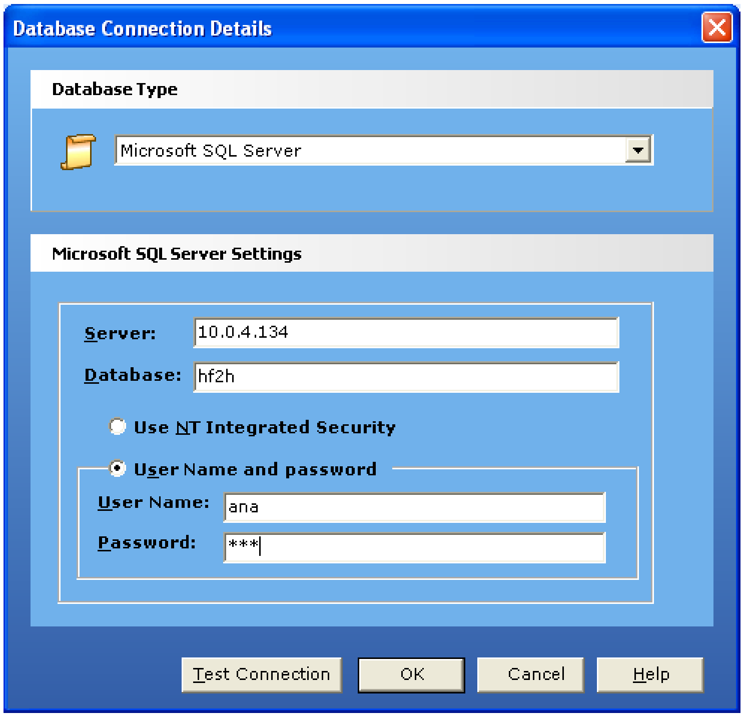
NOTE

To access the Report Console, you must first be certain to be authenticated to the workspace with which you want to work.

Starting the Report Console:

1. Click **Start** → **All Programs** → **Blue Lance, Inc** → **Reporting Console.** The following screen gets displayed.
2. It will prompt you for the database connection information.

For SQL (Report Console):



Database Connection Details

Database Type

Microsoft SQL Server

Microsoft SQL Server Settings

Server: 10.0.4.134

Database: hf2h

○ Use NT Integrated Security

● User Name and password

User Name: ana

Password: ***

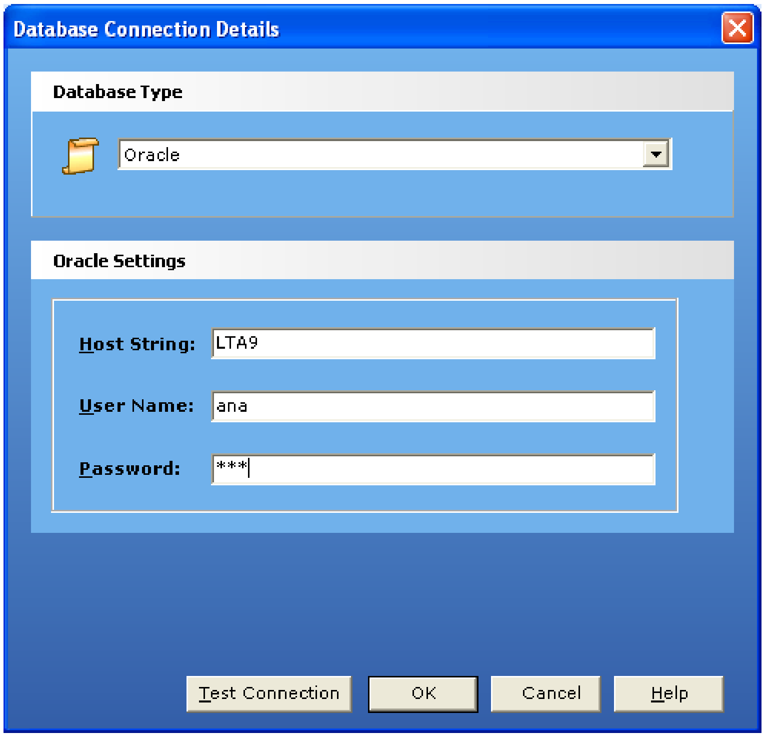
Select **Microsoft SQL Server** for Database Type.

1. Provide Server ID.
2. Provide Database Name.
3. Select **Use NT Integrated Security** OR **User Name and Password**.
4. If **User Name and Password** is selected, provide the User Name and the Password.
5. Click **OK**.

For Oracle (Report Console):

NOTE

Oracle client tools are needed to connect to the database using the Report Console.



Database Connection Details

Database Type

Oracle

Oracle Settings

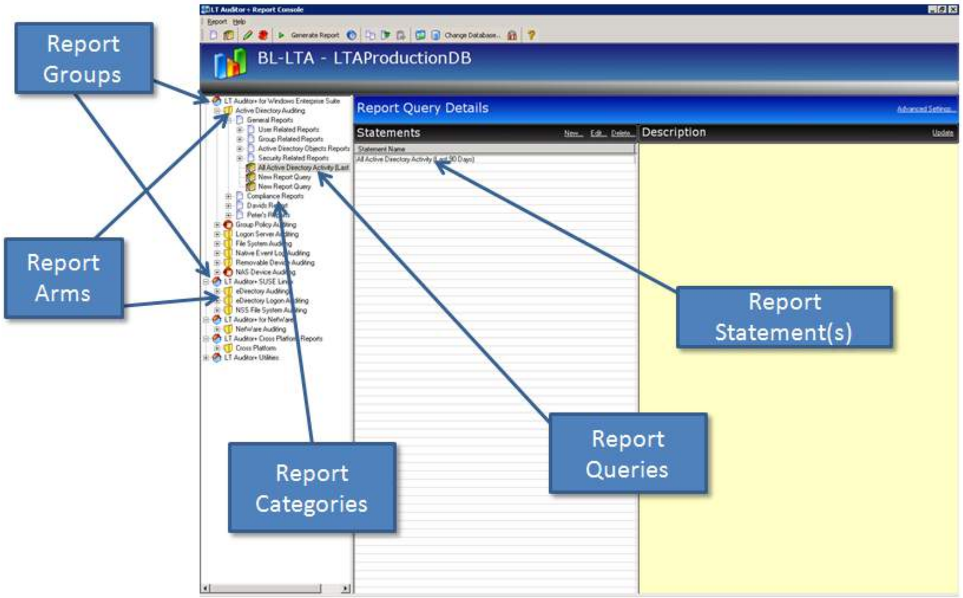
Host String: LTA9

User Name: ana

Password: ***

1. Select **Oracle** for **Database Type**.
2. Provide **Host String.**
3. Provide **User Name**
4. Provide **Password.**
5. Click **OK.**

The Report Console will be launched as soon as you are authenticated to the workspace. The Report Console screen is shown in the following screen:



The **Report Console** is divided into two views:

- The left pane shows all the report groups available for reporting.
- The right pane provides detailed information about each selected entity on the left.

Each reporting group has report arms that relate to Blue Lance products or tools. Reporting arms can have multiple report categories within it. Each report category can further have sub categories or actual report queries within them. Each report query is made up of one of more report query statements.

Report Icons

The icons used in the LT Auditor+ Report Console are listed below:

- New Category
- New Query
- Edit
- Delete
- nerate Report Run Report
- Scheduler
- Make Copy
- Copy to
- Paste
- SMTP Settings
- Change Database.. Switch database
- Update License Key
- Contents/Help

Report Groups and Report Arms

The following table lists Report Groups and Report Arms available with LT Auditor+.

Report Group	Report Arms	Description
LT Auditor+ for Window Enterprise Suite	Active Directory Auditing	Reports for Active Directory changes
	Group Policy Auditing	Report for Group Policy changes
	Logon Server Auditing	Reports for authentications
	File System Auditing	Reports for access to files and folders
	Native Event Log Auditing	Reports on Windows event logs
	Removable Media Auditing	Reports on access to flash drives and other removable media
	NAS Devices Auditing	Reports for access on devices like NetApp and EMC-Celerra
LT Auditor+ for SUSE Linux	eDirectory Auditing	Report on eDirectory changes
	eDirectory Logon Auditing	Reports on authentications to eDirectory
	NSS File System Auditing	Reports on access to NSS file systems on SUSE Linux systems
LT Auditor for NetWare	NetWare Auditing	Reports for Novell NetWare
LT Auditor+ Cross Platform Reports	Cross Platform Reports	Reports that can be consolidated across any of the Report Arms

LT Auditor+ Utilities	Audit the Auditor	Reports on configuration and status changes made within LT Auditor+
	Rollup Status Monitoring	Reports on status of audit data inserted into the LT Auditor+ database

Report Categories

Report Categories host groups of report queries that allow users the option to group similar queries under a single category for ease of access and use.

Create a new report category

1. Highlight the appropriate Report Arm:

    - Click **Report** → **New Report Category**

      OR
    - Click **New Report Category** on the toolbar.

2. Provide a name for the report category
3. Press Enter

Modify a report category:

Select the report category and select one of the following:

- Click **Report**, click **Edit**

  OR
- Click **Edit** on the toolbar

Delete a report category:

1. Select the report category and select one of the following:
    - Click **Report**, click **Delete**

      OR
    - Click **Delete** on the toolbar.
2. The system will ask you for confirmation.
3. Click **Yes**.

Creating a Report Query

Report queries determine how data is retrieved from the database for reporting. Every report query is comprised of one or more query statements. The following steps outline how to create a report query with one report query statement.

1. Select the report arm category in the left pane of the Report Console.
2. Select one of the following:

   - Highlight the report category
   - Click on the Create Report Query icon

A new report query is made up of one or more report query statements. A report statement is created when creating a report query. Each query can be configured in terms of desired output, format of report and additional parameters by selecting Advanced Setting which will be discussed later in this session

Report Statements

A report query statement contains a set of parameters that specifies how data is retrieved from the database on executing the query. A statement is comprised of multiple tabs that allow users to define the database query.

There are common tabs for all Report Arms as well tabs specific to each arm.

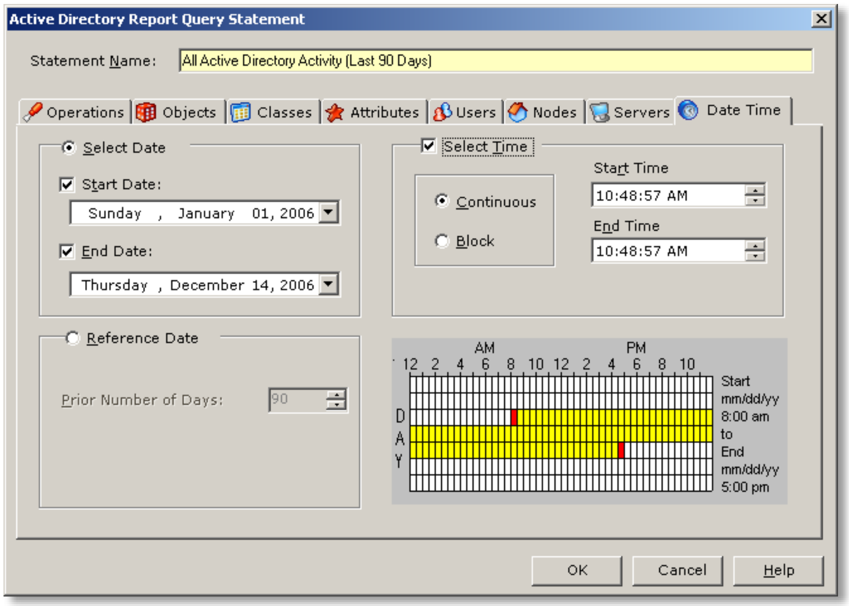
Common Report Statement Tabs for all Report Arms

The common tabs on report statements for all report arms are:

- Date &Time
- Users
- Nodes
- Servers
- Operations - Though this tab is common, its content varies for each Report Arm. We will discuss the Operations tab for each Report Arm in the Specific Tabs section.

Date & Time

This tab is used to specify date range for retrieval of data.



Active Directory Report Query Statement

Statement Name: All Active Directory Activity (Last 90 Days)

● Select Date

☑ Start Date: Sunday , January 01, 2006

☑ End Date: Thursday , December 14, 2006

○ Reference Date

Prior Number of Days: 90

☑ Select Time

● Continuous

○ Block

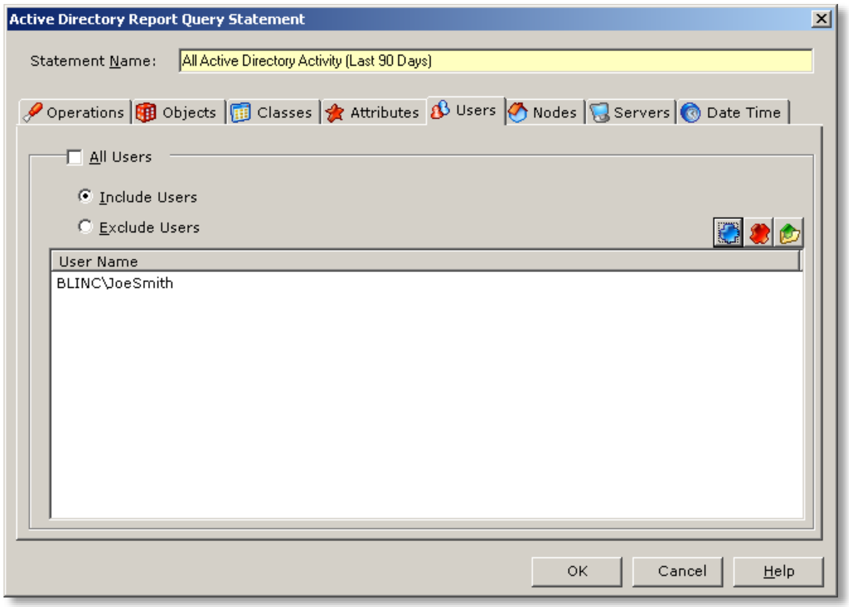
Start Time 10:48:57 AM

End Time 10:48:57 AM

- **Select Date** - runs reports between a start date and an end date.
- **Reference Date** - runs reports from '**Prior Number of Days'** up to present date
- **Select Time -** runs reports for a specific time.
- **Continuous Time** - This option reports activity from the start date and start time to the end date and end time.
- **Block of Time -** This option reports activity from the start date to the end date and all operations that fall within the specified start time and end time.

Users

Specifies what users are to be reported on.



Active Directory Report Query Statement

Statement Name: All Active Directory Activity (Last 90 Days)

☐ All Users

● Include Users

○ Exclude Users

User Name
BLINC\JoeSmith

Wild card characters are accepted. For example, to report on all users that contain the words admin, type in *admin*

NOTE

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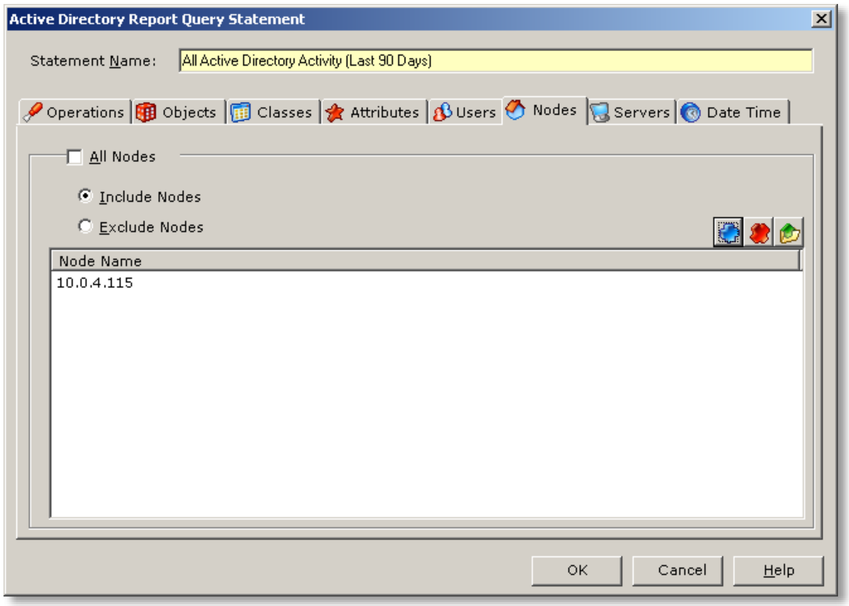
Actions common for all tabs

- Include/Exclude selection criteria
  - All query statement tabs with the exception of the Date & Time tab provide the choice of including or excluding the selection criteria specified in that tab.
  - Selecting Include will produce reports containing criteria selected in the tabs.
  - Selecting Exclude will produce reports containing all audited data except those items selected in the tabs.
  - Wild card characters are accepted.
- Adding , Deleting , and Browsing within tabs
  - In most tabs, when selecting specific items rather than all items for reporting, you may use the Add, Delete, and Browse icons to modify the items for which you would like to report.

Nodes

Specifies what nodes are to be reported on



Statement Name: All Active Directory Activity (Last 90 Days)

□ All Nodes

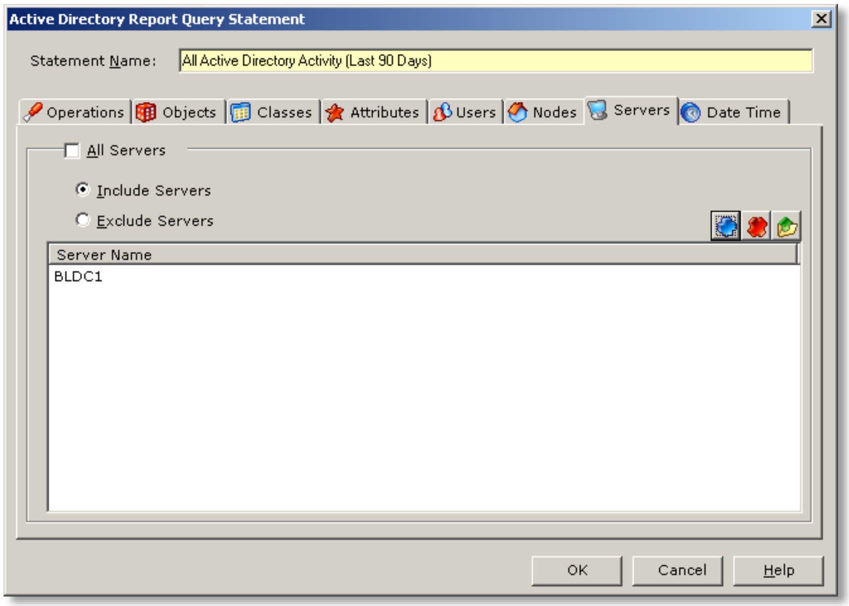
● Include Nodes

○ Exclude Nodes

Node Name
10.0.4.115

Servers

Specifies what servers are to be reported on



Statement Name: All Active Directory Activity (Last 90 Days)

□ All Servers

● Include Servers

○ Exclude Servers

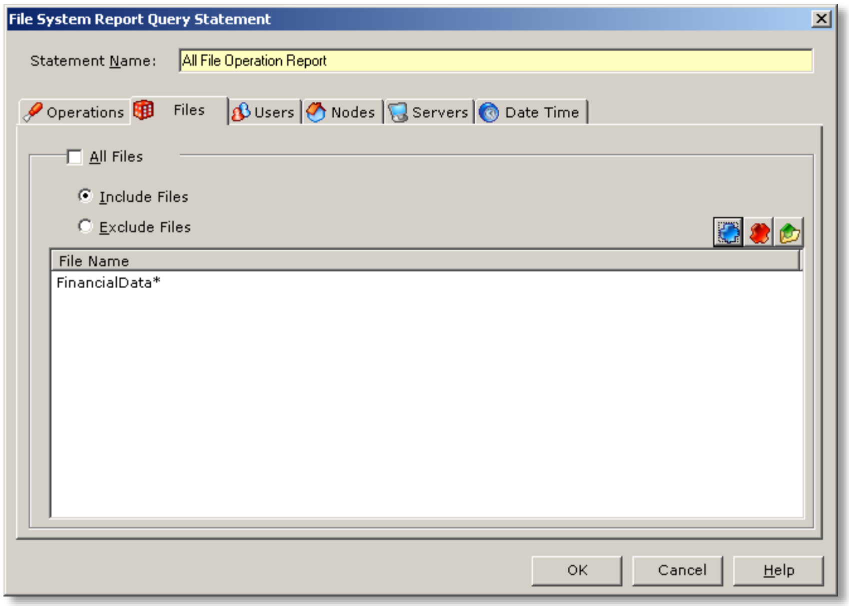
Server Name
BLDC1

Report Statement tabs for File System, Removable Devices, NAS Devices and NSS File Systems Report Arms

For these Report Arms the following tabs are applicable for enhanced querying.

Files

Specifies what files and folders are to be reported on.



Statement Name: All File Operation Report

☐ All Files

● Include Files

○ Exclude Files

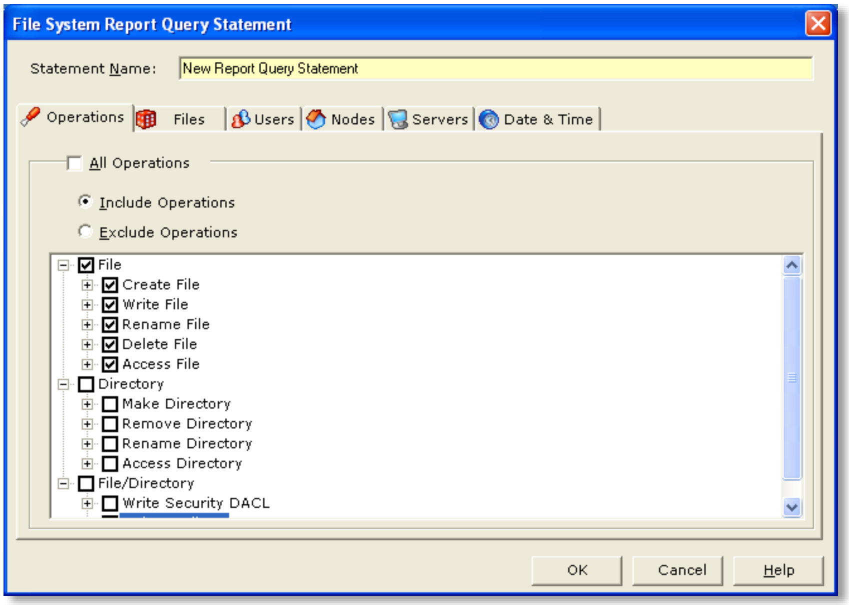
File Name
FinancialData*

Example:

- Including *.xlsx will report on all files with the .xlsx extension
- Excluding *.tmp will report on all files except files with the extension of .tmp

Operations

Species file operations to query for in the report.



Statement Name: New Report Query Statement

☐ All Operations

● Include Operations

○ Exclude Operations

- ☑ File
  - ☑ Create File
  - ☑ Write File
  - ☑ Rename File
  - ☑ Delete File
  - ☑ Access File
- ☐ Directory
  - ☐ Make Directory
  - ☐ Remove Directory
  - ☐ Rename Directory
  - ☐ Access Directory
- ☐ File/Directory
  - ☐ Write Security DACL

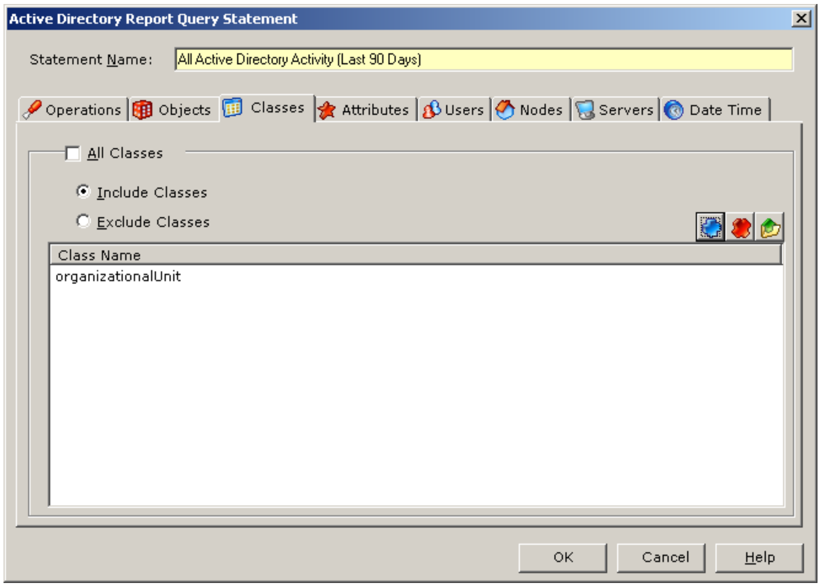
Operations are grouped into the following sections

- File Operations – Create, Write, Rename, Delete and Access
- Directory Operations – Make, Remove, Rename and Access
- File & Directory Operations – Write Security DACL/ Write Attribute

Report Statement tabs for the Active Directory, eDirectory and NetWare Report Arms

Classes

Classes are a group of objects defined by a certain set of attributes. Classes can include users, groups, organizational units, computers and any others defined in the Active Directory/eDirectory environment. Select the classes to report on in this tab.



Statement Name: All Active Directory Activity (Last 90 Days)

□ All Classes

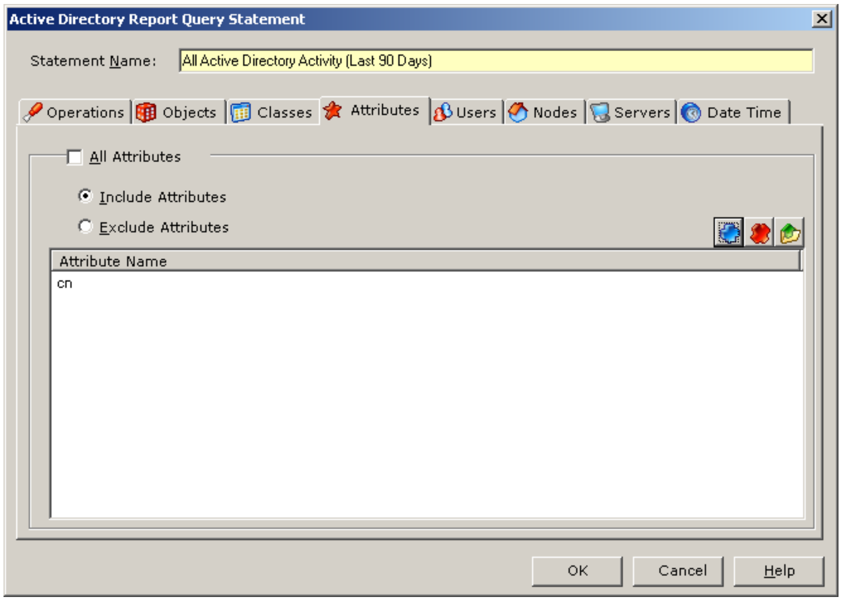
● Include Classes

○ Exclude Classes

Class Name
organizationalUnit

Attributes

Attributes are any properties that define an object. Report on specific attributes like DACL, description, surname. Reports can also be generated on values given to attributes.



Statement Name: All Active Directory Activity (Last 90 Days)

□ All Attributes

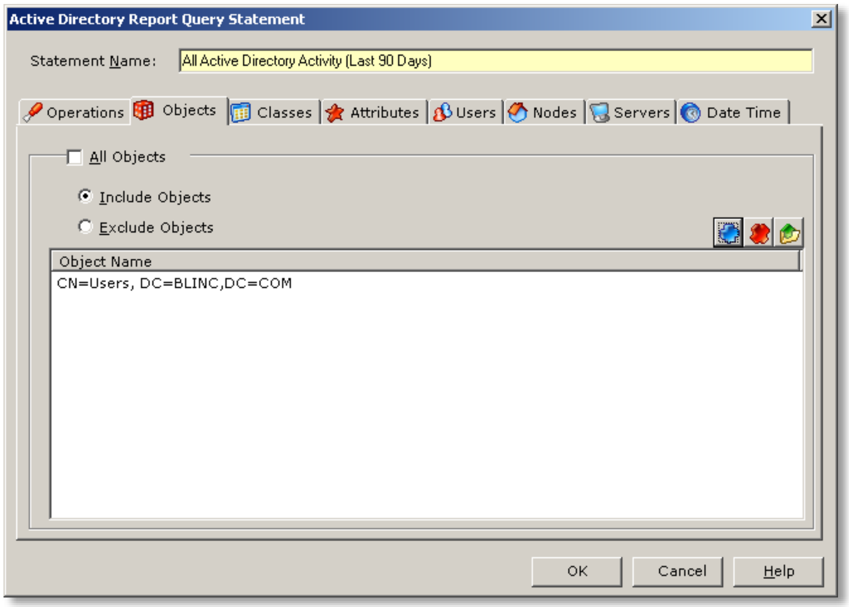
● Include Attributes

○ Exclude Attributes

Attribute Name
cn

Objects

Objects are entities in the directory. Specific objects to report on in this tab.



Active Directory Report Query Statement

Statement Name: All Active Directory Activity (Last 90 Days)

□ All Objects

● Include Objects

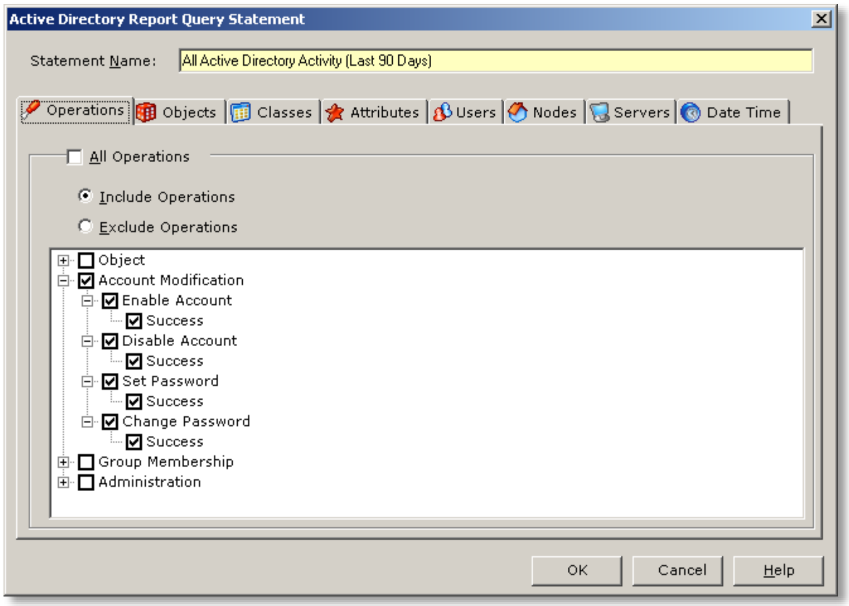
○ Exclude Objects

Object Name

CN=Users, DC=BLINC,DC=COM

Operations

The operations available for reporting in a Directory query are actions related to changes in objects, accounts, group membership, and administration.



Active Directory Report Query Statement

Statement Name: All Active Directory Activity (Last 90 Days)

□ All Operations

● Include Operations

○ Exclude Operations

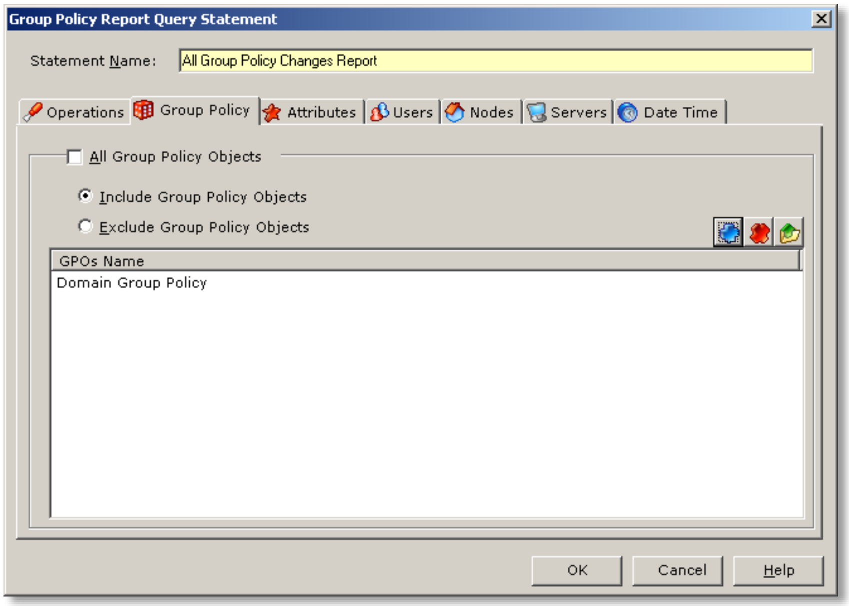
- □ Object
- ☑ Account Modification
  - ☑ Enable Account
    - ☑ Success
  - ☑ Disable Account
    - ☑ Success
  - ☑ Set Password
    - ☑ Success
  - ☑ Change Password
    - ☑ Success
- □ Group Membership
- □ Administration

The operations available for reporting include: object creation, modification, and deletion; account modification; changes in group membership, password changes and changes in administration.

Report Statement tab for the Group Policy Report Arm

Objects

In Group Policy, a Group Policy Object is a container where policy settings are stored.



Group Policy Report Query Statement

Statement Name: All Group Policy Changes Report

□ All Group Policy Objects

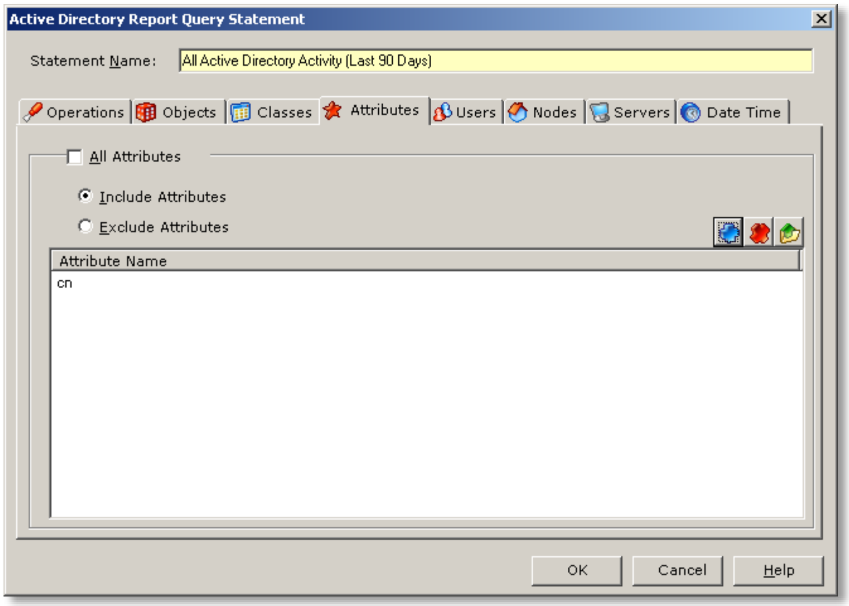
● Include Group Policy Objects

○ Exclude Group Policy Objects

GPOs Name
Domain Group Policy

Attributes

Attributes properties that define the group policy and can LT Auditor+ allows for granular reporting.



Active Directory Report Query Statement

Statement Name: All Active Directory Activity (Last 90 Days)

□ All Attributes

● Include Attributes

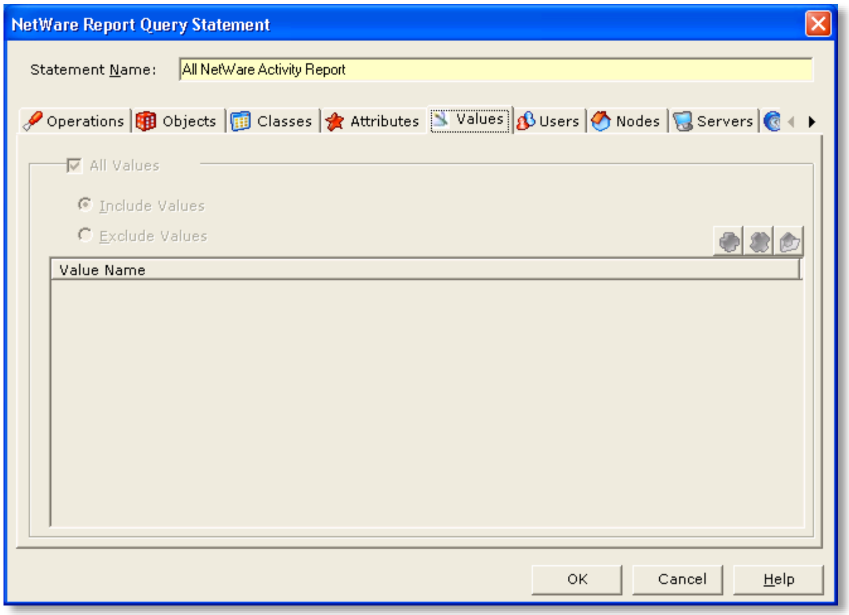
○ Exclude Attributes

Attribute Name
cn

Report Statement tab for the NetWare Report Arm

Values

Values assigned to attributes can be queried for in this tab.



NetWare Report Query Statement

Statement Name: All NetWare Activity Report

☑ All Values

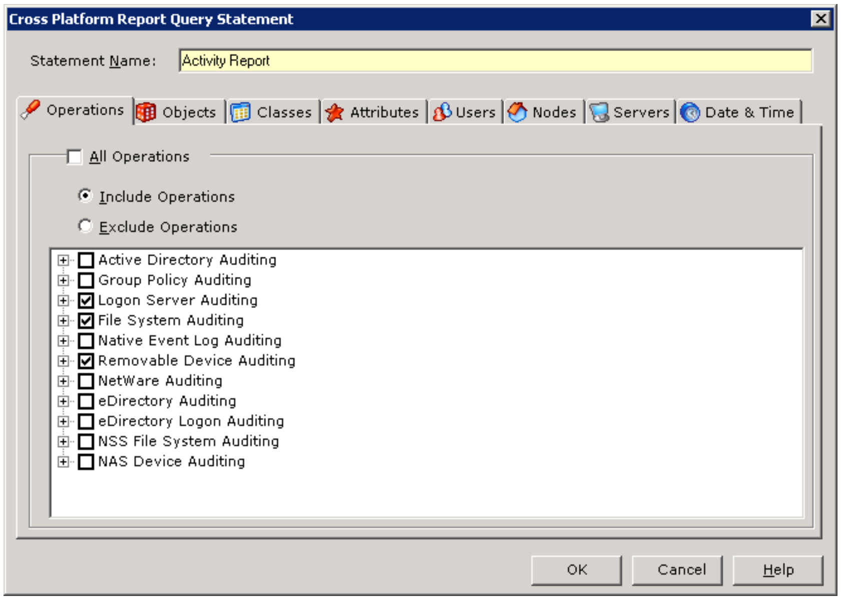
● Include Values

○ Exclude Values

Report Statement tab for the Cross Platform Report Arm

The cross platform reports allow users to report consolidated information across all report arms. For example if a single report of Active Directory, eDirectory and NetWare activity was required, one can do with Cross Plat form reports. Another example would be a query for a particular user's entire activity across everything audited with LT Auditor+.

A Cross Platform report statement contains a combination of all tabs discussed above as shown below.



Statement Name: Activity Report

□ All Operations

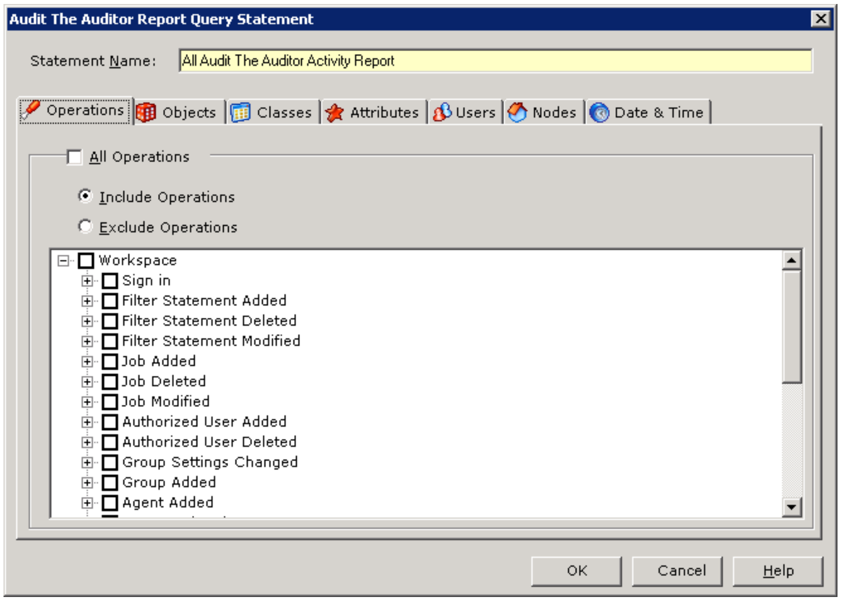
● Include Operations

○ Exclude Operations

- ⊞ □ Active Directory Auditing
- ⊞ □ Group Policy Auditing
- ⊞ ☑ Logon Server Auditing
- ⊞ ☑ File System Auditing
- ⊞ □ Native Event Log Auditing
- ⊞ ☑ Removable Device Auditing
- ⊞ □ NetWare Auditing
- ⊞ □ eDirectory Auditing
- ⊞ □ eDirectory Logon Auditing
- ⊞ □ NSS File System Auditing
- ⊞ □ NAS Device Auditing

Report Statement tab for the Audit the Auditor Report Arm

Audit the Auditor reports display information on modifications made to configurations and policies within LT Auditor+. It is important report to audit the activity of LT Auditor+ administrators. The screen below displays the standard tabs available for querying.



Statement Name: All Audit The Auditor Activity Report

□ All Operations

● Include Operations

○ Exclude Operations

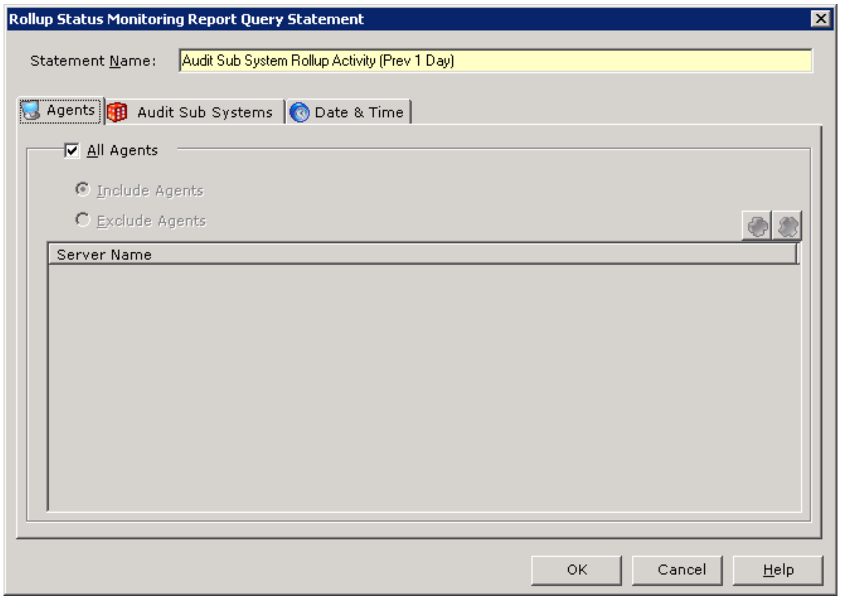
- ⊟ □ Workspace
  - ⊞ □ Sign in
  - ⊞ □ Filter Statement Added
  - ⊞ □ Filter Statement Deleted
  - ⊞ □ Filter Statement Modified
  - ⊞ □ Job Added
  - ⊞ □ Job Deleted
  - ⊞ □ Job Modified
  - ⊞ □ Authorized User Added
  - ⊞ □ Authorized User Deleted
  - ⊞ □ Group Settings Changed
  - ⊞ □ Group Added
  - ⊞ □ Agent Added

Report Statement tab for the Rollup Status Monitoring Report Arm

The rollup status monitoring reports provide information on the status of data inserted into the LT Auditor+ database. Users can get information such as:

- How many records were inserted per agent
- How many agents did not send data
- Patterns for volume of audit data collected over time.

The following screen displays tabs available to query for rollup information.



Rollup Status Monitoring Report Query Statement

Statement Name: Audit Sub System Rollup Activity (Prev 1 Day)

Advanced Settings

The Advanced Settings option in the Report Console allows users the following options:

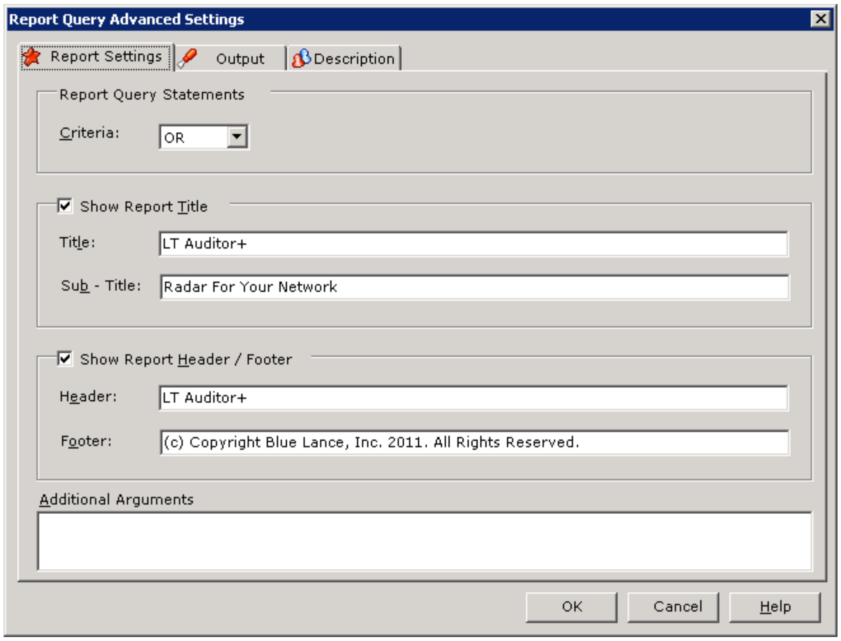
- Choose the report output type (e-mail, send to printer, etc.)
- Choose the type of report (chronological columnar, etc.)
- Determine whether multiple statements will be linked by AND or OR
- Give the report a description

To access Advanced Setting

1. Select the report query statement
2. Click **Advanced Setting** in the top right pane

The Advanced Settings window has multiple tabs discussed below.

Report Settings



Report Query Advanced Settings

Report Query Statements

Criteria: OR

☑ Show Report Title

Title: LT Auditor+

Sub - Title: Radar For Your Network

☑ Show Report Header / Footer

Header: LT Auditor+

Footer: (c) Copyright Blue Lance, Inc. 2011. All Rights Reserved.

Additional Arguments

Criteria – Used when combining multiple query statements within a query, they may be linked by either the logical phrase AND or the logical phrase OR.

- AND – Using the phrase AND to link query statements will return only the data that applies to the parameters of all statements.
- OR – Using the phrase OR to link query statements will return data that applies to the parameters of any statement in a query, not necessarily all statements.

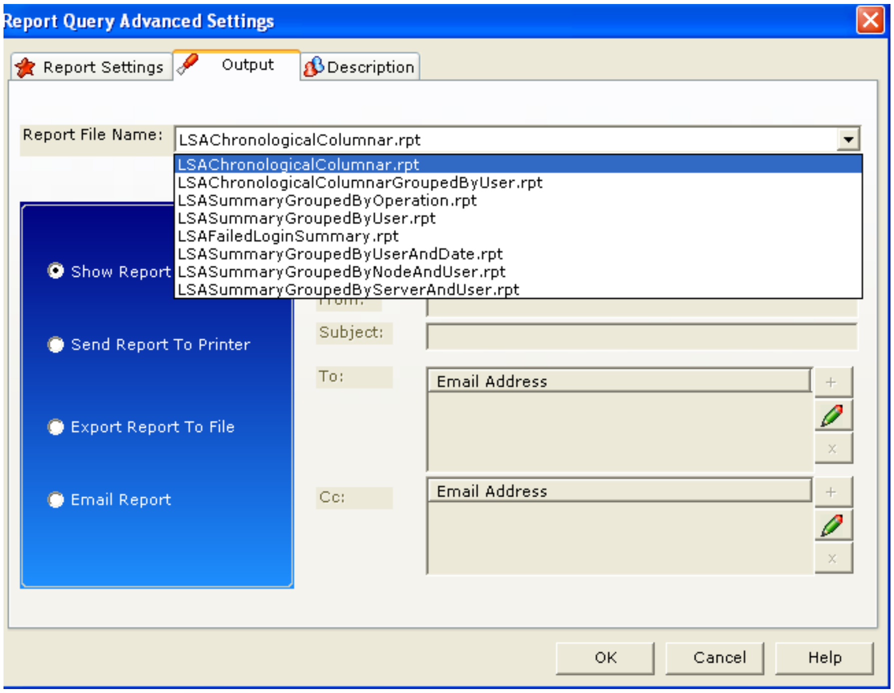
Show Report Title and Sub-title – In this field you may choose to show, hide, or change the report's title and sub-title.

Show Report Header and Footer – In this field you may choose to show, hide, or change the report's header and footer.

Additional Arguments – This field is used to write in additional information necessary to run specific types of reports.

Output

Under the **Output** tab, you will be able to select how you would like to organize the report and where you would like it to be viewed.



Report Query Advanced Settings

Report Settings | Output | Description

Report File Name: LSAChronologicalColumnar.rpt

- LSAChronologicalColumnar.rpt
- LSAChronologicalColumnarGroupedByUser.rpt
- LSASummaryGroupedByOperation.rpt
- LSASummaryGroupedByUser.rpt
- LSAFailedLoginSummary.rpt
- LSASummaryGroupedByUserAndDate.rpt
- LSASummaryGroupedByNodeAndUser.rpt
- LSASummaryGroupedByServerAndUser.rpt

● Show Report

○ Send Report To Printer

○ Export Report To File

○ Email Report

From:

Subject:

To: Email Address

Cc: Email Address

You may have it shown on screen, sent to a printer, exported to a file, or sent in an email. If you choose to send the report in an email, you may enter the email settings as desired in the right portion of this window. You must give the report a file name and format when sending it to a file or via email.

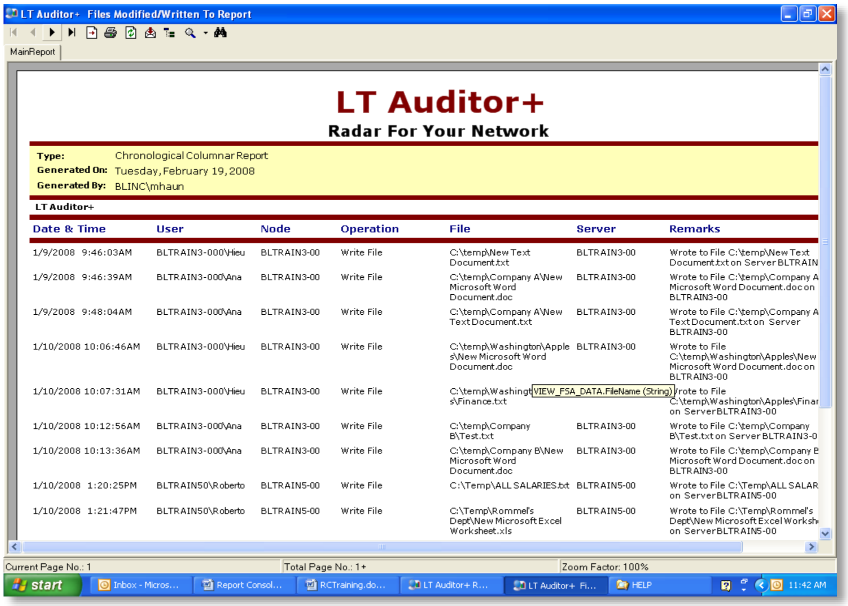
NOTE

Choosing to show the report on screen will prevent you from being able to schedule the report and so should only be used when generating a single report.

Selection of a Report File Name determines the format of the report. There are multiple report formats defined based on the report arm selected. Some are displayed below:

Chronological Columnar

This report output type is the default setting for most reports generated. It is viewed in columns of text, with the data listed from least to most recent



LT Auditor+

Radar For Your Network

Type: Chronological Columnar Report
Generated On: Tuesday, February 19, 2008
Generated By: BLINC\mhaun

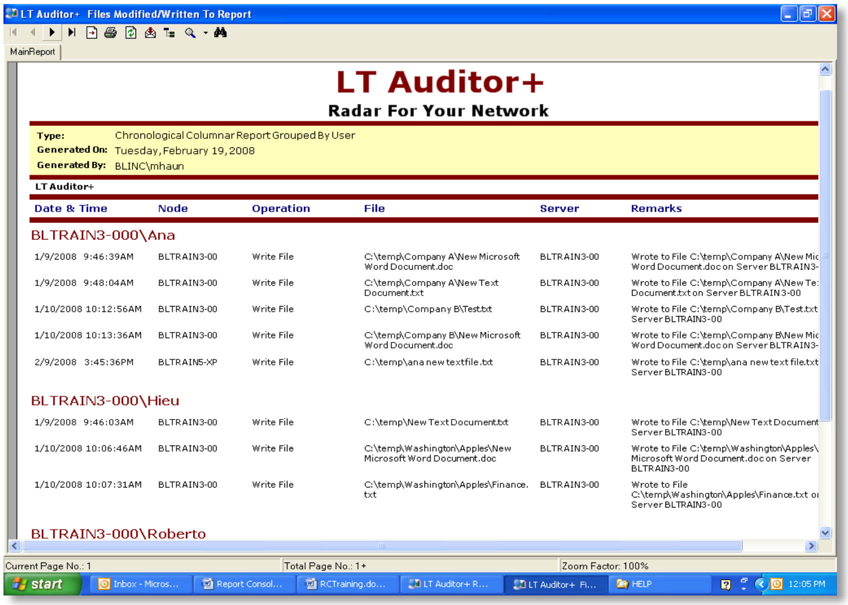
LT Auditor+

Date & Time	User	Node	Operation	File	Server	Remarks
1/9/2008 9:46:03AM	BLTRAIN3-000\Hieu	BLTRAIN3-00	Write File	C:\temp\New Text Document.txt	BLTRAIN3-00	Wrote to File C:\temp\New Text Document.txt on Server BLTRAIN
1/9/2008 9:46:39AM	BLTRAIN3-000\Ana	BLTRAIN3-00	Write File	C:\temp\Company A\New Microsoft Word Document.doc	BLTRAIN3-00	Wrote to File C:\temp\Company A Microsoft Word Document.doc on BLTRAIN3-00
1/9/2008 9:48:04AM	BLTRAIN3-000\Ana	BLTRAIN3-00	Write File	C:\temp\Company A\New Text Document.txt	BLTRAIN3-00	Wrote to File C:\temp\Company A Text Document.txt on Server BLTRAIN3-00
1/10/2008 10:06:46AM	BLTRAIN3-000\Hieu	BLTRAIN3-00	Write File	C:\temp\Washington\Apples\New Microsoft Word Document.doc	BLTRAIN3-00	Wrote to File C:\temp\Washington\Apples\New Microsoft Word Document.doc on BLTRAIN3-00
1/10/2008 10:07:31AM	BLTRAIN3-000\Hieu	BLTRAIN3-00	Write File	C:\temp\Washingt s\Finance.txt		/rote to File C:\temp\Washington\Apples\Finar on ServerBLTRAIN3-00
1/10/2008 10:12:56AM	BLTRAIN3-000\Ana	BLTRAIN3-00	Write File	C:\temp\Company B\Test.txt	BLTRAIN3-00	Wrote to File C:\temp\Company B\Test.txt on Server BLTRAIN3-0
1/10/2008 10:13:36AM	BLTRAIN3-000\Ana	BLTRAIN3-00	Write File	C:\temp\Company B\New Microsoft Word Document.doc	BLTRAIN3-00	Wrote to File C:\temp\Company E Microsoft Word Document.doc on BLTRAIN3-00
1/10/2008 1:20:25PM	BLTRAIN50\Roberto	BLTRAIN5-00	Write File	C:\Temp\ALL SALARIES.txt	BLTRAIN5-00	Wrote to File C:\Temp\ALL SALAR on ServerBLTRAIN5-00
1/10/2008 1:21:47PM	BLTRAIN50\Roberto	BLTRAIN5-00	Write File	C:\Temp\Rommel's Dept\New Microsoft Excel Worksheet.xls	BLTRAIN5-00	Wrote to File C:\Temp\Rommel's Dept\New Microsoft Excel Worksh on ServerBLTRAIN5-00

Current Page No.: 1 Total Page No.: 1+ Zoom Factor: 100%

Chronological Columnar Grouped by User

This report output type is similar to the one prior, but data is grouped by user. It is then listed in chronological form from least to most recent data within each user's group of data.



LT Auditor+

Radar For Your Network

Type: Chronological Columnar Report Grouped By User
Generated On: Tuesday, February 19, 2008
Generated By: BLINC\mhaun

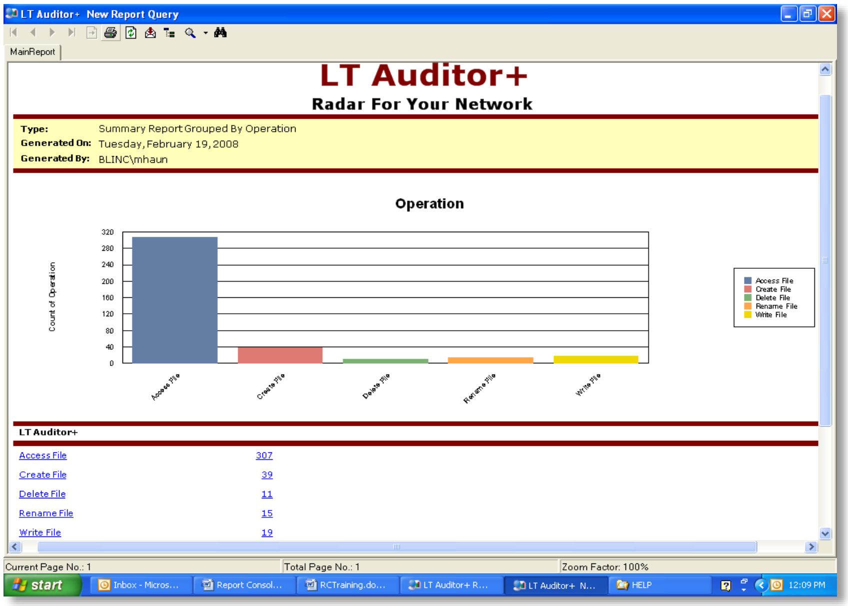
LT Auditor+

Date & Time	Node	Operation	File	Server	Remarks
BLTRAIN3-000\Ana					
1/9/2008 9:46:39AM	BLTRAIN3-00	Write File	C:\temp\Company A\New Microsoft Word Document.doc	BLTRAIN3-00	Wrote to File C:\temp\Company A\New Mic Word Document.doc on Server BLTRAIN3-
1/9/2008 9:48:04AM	BLTRAIN3-00	Write File	C:\temp\Company A\New Text Document.txt	BLTRAIN3-00	Wrote to File C:\temp\Company A\New Te: Document.txt on Server BLTRAIN3-00
1/10/2008 10:12:56AM	BLTRAIN3-00	Write File	C:\temp\Company B\Test.txt	BLTRAIN3-00	Wrote to File C:\temp\Company B\Test.txt Server BLTRAIN3-00
1/10/2008 10:13:36AM	BLTRAIN3-00	Write File	C:\temp\Company B\New Microsoft Word Document.doc	BLTRAIN3-00	Wrote to File C:\temp\Company B\New Mic Word Document.doc on Server BLTRAIN3-
2/9/2008 3:45:36PM	BLTRAIN5-XP	Write File	C:\temp\ana new textfile.txt	BLTRAIN3-00	Wrote to File C:\temp\ana new text file.txt Server BLTRAIN3-00
BLTRAIN3-000\Hieu					
1/9/2008 9:46:03AM	BLTRAIN3-00	Write File	C:\temp\New Text Document.txt	BLTRAIN3-00	Wrote to File C:\temp\New Text Document Server BLTRAIN3-00
1/10/2008 10:06:46AM	BLTRAIN3-00	Write File	C:\temp\Washington\Apples\New Microsoft Word Document.doc	BLTRAIN3-00	Wrote to File C:\temp\Washington\Apples\ Microsoft Word Document.doc on Server BLTRAIN3-00
1/10/2008 10:07:31AM	BLTRAIN3-00	Write File	C:\temp\Washington\Apples\Finance.txt	BLTRAIN3-00	Wrote to File C:\temp\Washington\Apples\Finance.txt o Server BLTRAIN3-00
BLTRAIN3-000\Roberto					

Current Page No.: 1 Total Page No.: 1+ Zoom Factor: 100%

Summary Grouped by Operation

This report output type is shown in graph form. Each audited operation which is being reported will represent one bar in the graph. The number of times that operation was performed will be shown by the height of each bar. The specific counts for each operation will be listed in text format below the graph. This report also permits the user to drill down into the details.



LT Auditor+

Radar For Your Network

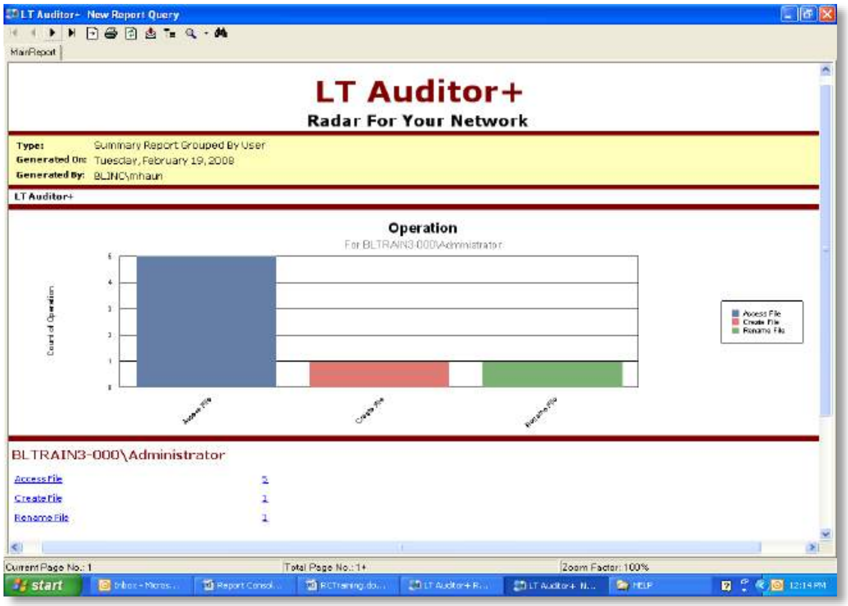
Type: Summary Report Grouped By Operation
Generated On: Tuesday, February 19, 2008
Generated By: BLINC\mhaun

LT Auditor+

Access File	307
Create File	39
Delete File	11
Rename File	15
Write File	19

Summary Grouped by User

This report output type is shown in graph form. Each audited operation which is being reported will represent one bar in the graph. The number of times that operation was performed will be shown by the height of each bar. The specific counts for each operation will be listed in text format below the graph.



LT Auditor+

Radar For Your Network

Type: Summary Report Grouped By User
Generated On: Tuesday, February 19, 2008
Generated By: BLINC\mhaun

LT Auditor+

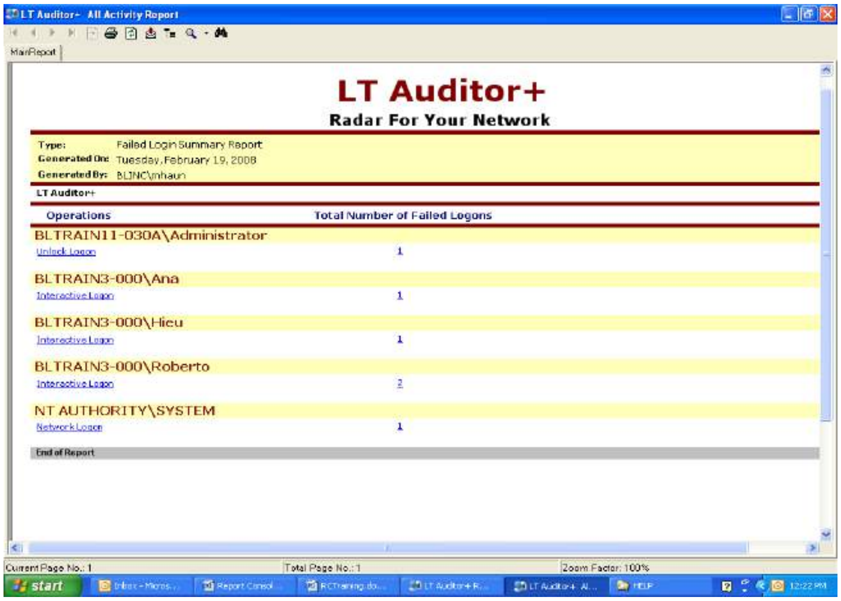
BLTRAIN3-000\Administrator

Access File	5
Create File	1
Rename File	1

Failed Logon Summary Report

This is a report containing failed login data categorized by user and specified by a threshold of a minimum number of failed login attempts.

When selecting this type of report, return to the Report Settings tab and under Additional Arguments, enter %T=n , where n is the minimum number of failed login attempts by any one user to be generated in the report.



LT Auditor+

Radar For Your Network

Type: Failed Login Summary Report
Generated On: Tuesday, February 19, 2008
Generated By: BLINC\mhaun

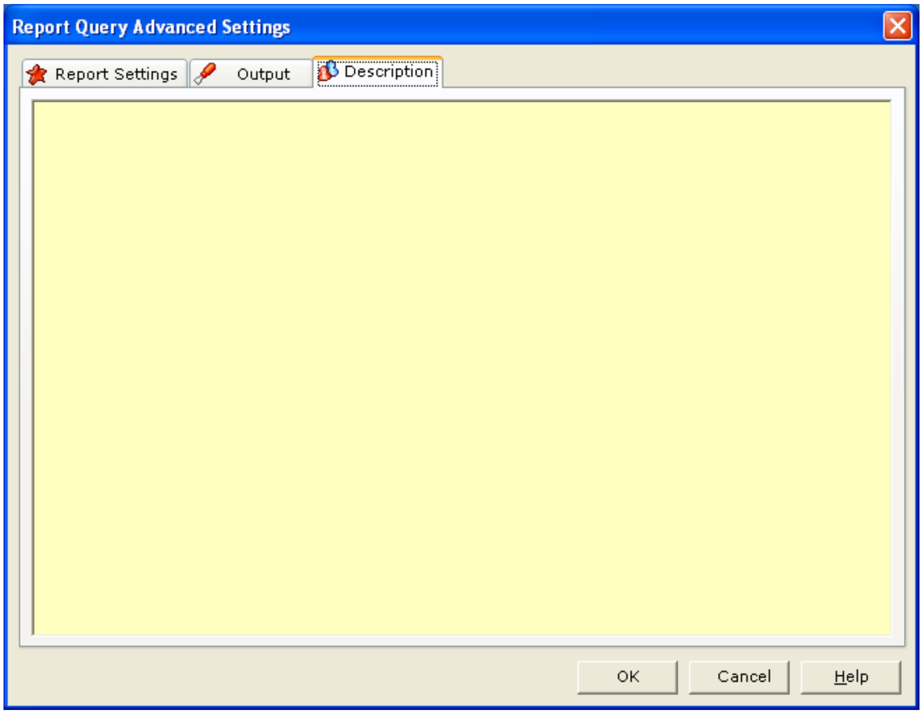
LT Auditor+

Operations	Total Number of Failed Logons
BLTRAIN11-030A\Administrator	
Unlock Logon	1
BLTRAIN3-000\Ana	
Interactive Logon	1
BLTRAIN3-000\Hieu	
Interactive Logon	1
BLTRAIN3-000\Roberto	
Interactive Logon	2
NT AUTHORITY\SYSTEM	
Network Logon	1

End of Report

Description

Under the tab you can a description of your query. You may choose to include any information regarding the purpose of the query, how it is configured, when it is scheduled to run, and in what form it will be viewed.



Creating additional Report Query Statement:

3. Select the report query statement
4. Click **New** in the right pane displaying all the Report Query statements for the specific report query.

Modify a Report Query Statement:

1. Select the **report query statement**
2. Click **Edit** in the right pane which displays all the report query statements for that report query.
3. Modify the report query statement data.
4. Click **OK**.

Delete a Report Query Statement:

1. Select the Report Query Statement
2. Click **Delete** in the right pane which displays all the report query statements for that report query.
3. Click **Yes** when prompted for confirmation.

Modify a report query,

1. Select the report query and select one of the following:

2. Click **Report** → **Edit** in the menu

   OR

   Click **Edit** on the toolbar

3. Modify the report query data.
4. Click **OK**.

Delete a report query:

1. Select the report query.
2. Select one of the following:

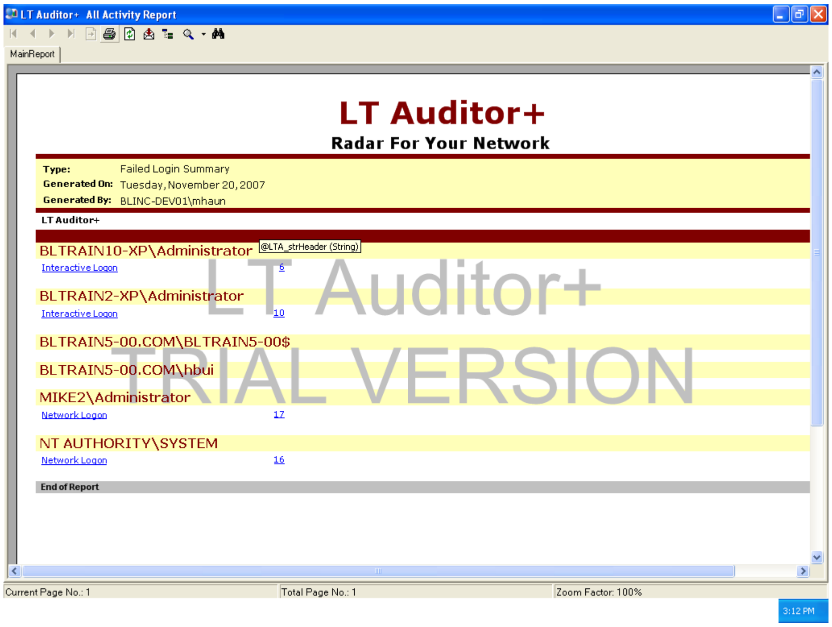
   Click **Report** → **Delete** in the menu

   Or

   Click **Delete** on the toolbar
3. Click **Yes** when prompted for confirmation.

Generate a report:

1. Select the report query
2. Select **Generate Report** from the Report Console toolbar. A sample report is shown below.



LT Auditor+

Radar For Your Network

Type: Failed Login Summary
Generated On: Tuesday, November 20, 2007
Generated By: BLINC-DEV01\mhaun

LT Auditor+

BLTRAIN10-XP\Administrator @LTA_strHeader (String)

Interactive Logon 6

BLTRAIN2-XP\Administrator

Interactive Logon 10

BLTRAIN5-00.COM\BLTRAIN5-00$

BLTRAIN5-00.COM\hbui

MIKE2\Administrator

Network Logon 17

NT AUTHORITY\SYSTEM

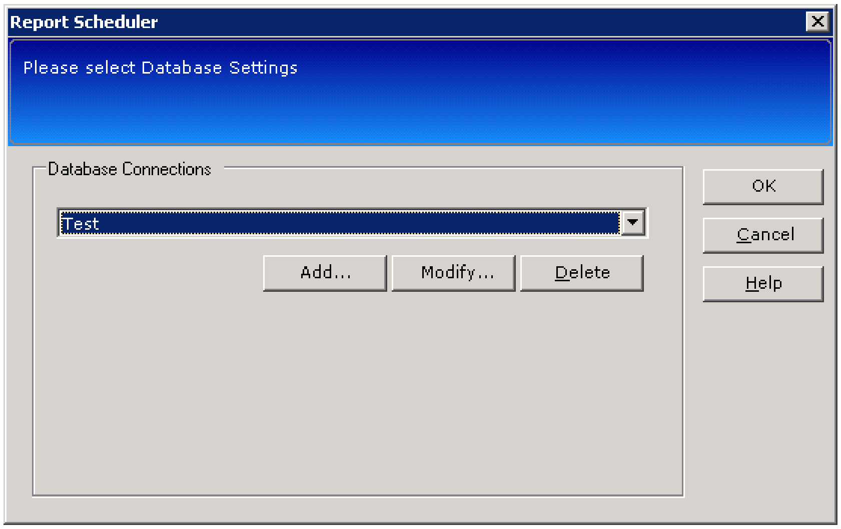
Network Logon 16

End of Report

Scheduling a Report

Scheduling a report in the Report Console is made simple by the Report Scheduler. Highlight the query you would like to schedule and click Report →Report Scheduler or click on the schedule icon “ ” in the toolbar.

The Report Console will prompt you for database connection information.

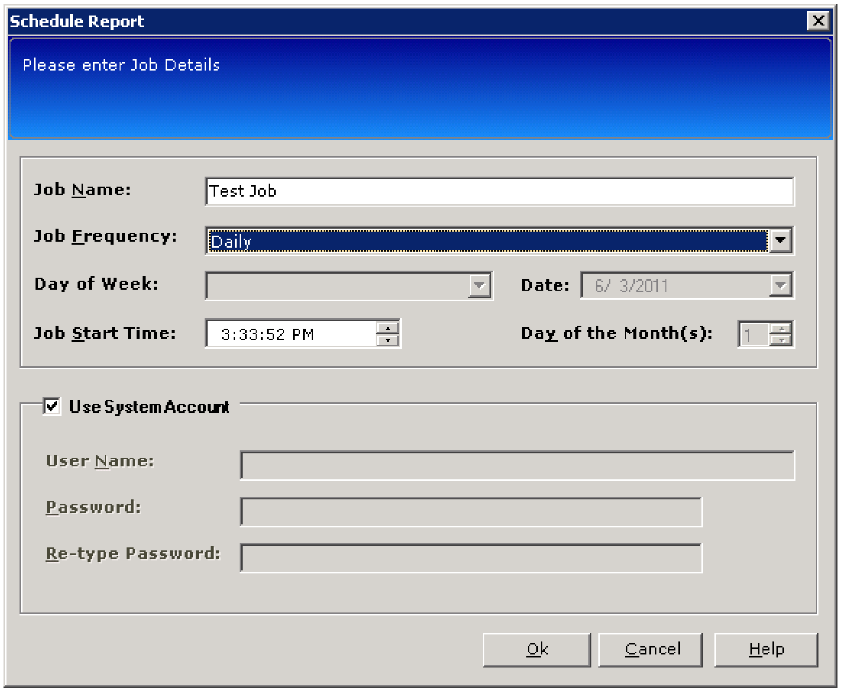


Report Scheduler

Please select Database Settings

Database Connections: Test

Select your database from the drop down box, or choose to create a new connection. Once you are connected, the Job Details window will appear.



Schedule Report

Please enter Job Details

Job Name: Test Job

Job Frequency: Daily

Day of Week:

Date: 6/ 3/2011

Job Start Time: 3:33:52 PM

Day of the Month(s): 1

☑ Use System Account

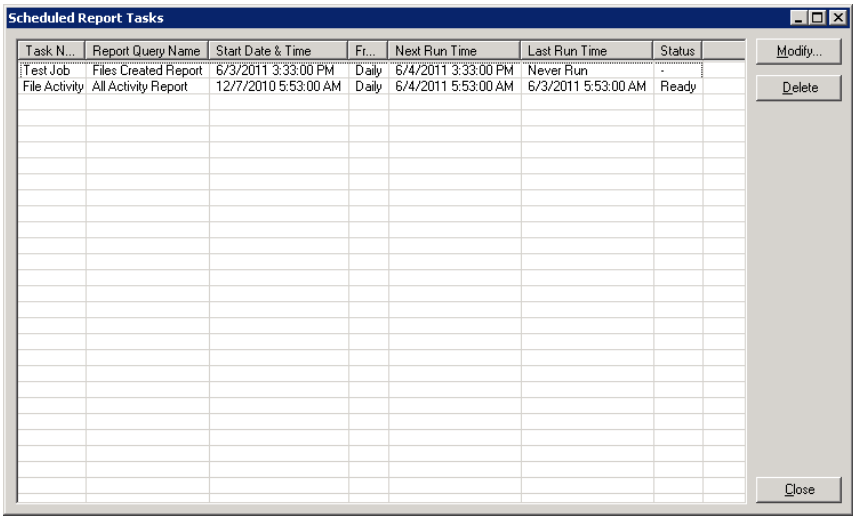
User Name:

Password:

Re-type Password:

Enter the job name, job frequency, date, and start time as necessary. When properly configured, click OK. You will receive reports with the frequency you requested in the output format previously configured in the Advanced Settings window.

A list of all scheduled reports can be viewed by clicking on the menu Report →View Scheduled Reports



Task N...	Report Query Name	Start Date & Time	Fr...	Next Run Time	Last Run Time	Status
Test Job	Files Created Report	6/3/2011 3:33:00 PM	Daily	6/4/2011 3:33:00 PM	Never Run	-
File Activity	All Activity Report	12/7/2010 5:53:00 AM	Daily	6/4/2011 5:53:00 AM	6/3/2011 5:53:00 AM	Ready

Chapter 5 - Securing LT Auditor +

Authenticating to the Workspace

There are several areas in LT Auditor+ that require authentication to access.

- Security Management Console
- Manager Console
- Report Console
- Remote install for Agents

There are two levels of security for LT Auditor+. Level 1 security defines the users authorized to access the workspace. Level 2 securities define users authorized to access the Managers.

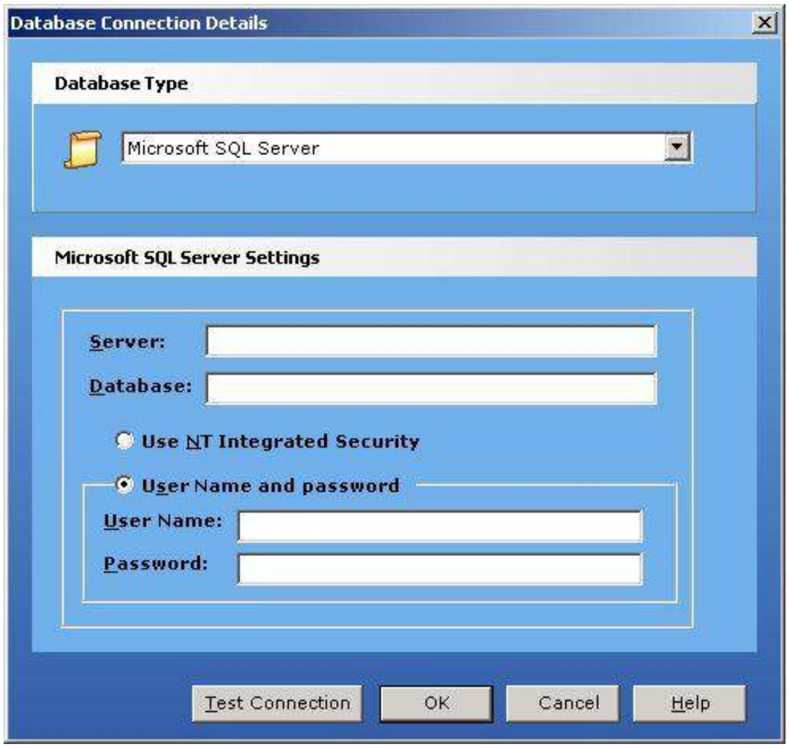
LT Auditor+ Security Level 1

Authorized users will access the workspace by authentication. For example, LT Auditor+ for Windows will access the workspace through a Microsoft SQL server or through an Oracle server. The first level 1 user is added during the initial installation.

To launch the Security Management Console:

1. Click Start → All Programs →Blue Lance, Inc → Management Console.
2. The screen displayed below prompts for the database connection information.
3. Connect to the workspace to add authorized users.

For SQL:


Database Connection Details

Database Type

Microsoft SQL Server

Microsoft SQL Server Settings

Server:

Database:

○ Use NT Integrated Security

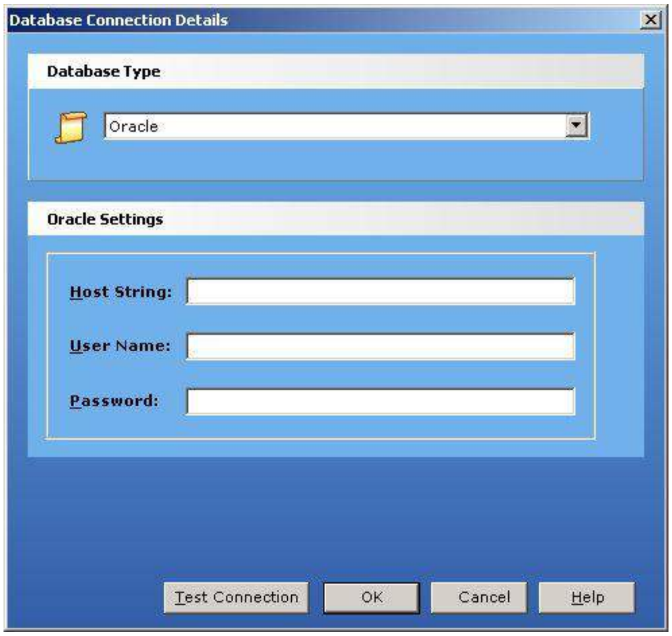
● User Name and password

User Name:

Password:

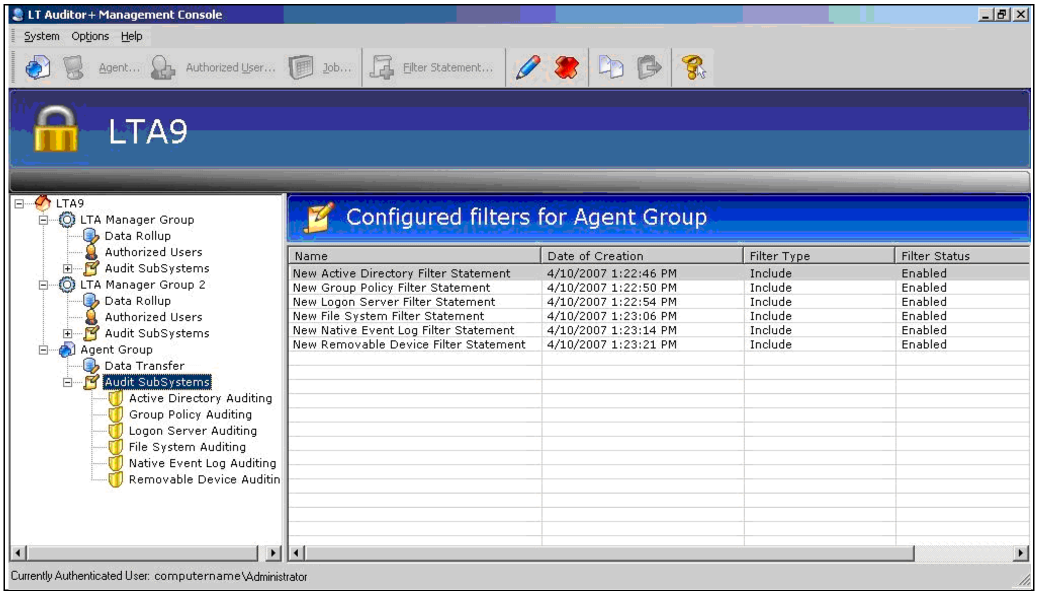
1. Select **Microsoft SQL Server** for Database Type information.
2. Provide **Server ID.**
3. Provide **Database Name**.
4. If **NT Integrated Security** was enabled during installation, you should be signed in with your Windows® password. If **User Name and Password** was selected, provide the user name and the password.
5. Click **OK**.

For ORACLE:



1. Select **Oracle** for **Database Type.**
2. Provide **Host String**.
3. Enter **User Name**
4. Enter **Password.**
5. Click **OK**.

The Management Console gets launched as soon as the user is authenticated to the workspace. The Management Console screen is shown in the following figure:



Configured filters for Agent Group

Name	Date of Creation	Filter Type	Filter Status
New Active Directory Filter Statement	4/10/2007 1:22:46 PM	Include	Enabled
New Group Policy Filter Statement	4/10/2007 1:22:50 PM	Include	Enabled
New Logon Server Filter Statement	4/10/2007 1:22:54 PM	Include	Enabled
New File System Filter Statement	4/10/2007 1:23:06 PM	Include	Enabled
New Native Event Log Filter Statement	4/10/2007 1:23:14 PM	Include	Enabled
New Removable Device Filter Statement	4/10/2007 1:23:21 PM	Include	Enabled

The Management Console is divided into two views. The left pane shows all of the currently configured workspace with the workspace name as the root node of the tree. Below the root nodes are the Manager Groups and Agent Groups of the workspace. The right pane displays the details of each node highlighted on the left side.

Select the workspace root node in the tree to display all the Manager Groups and Agent Groups in the pane on the right side.

LT Auditor+ Security Level 2

Authorized Users to Manager Groups

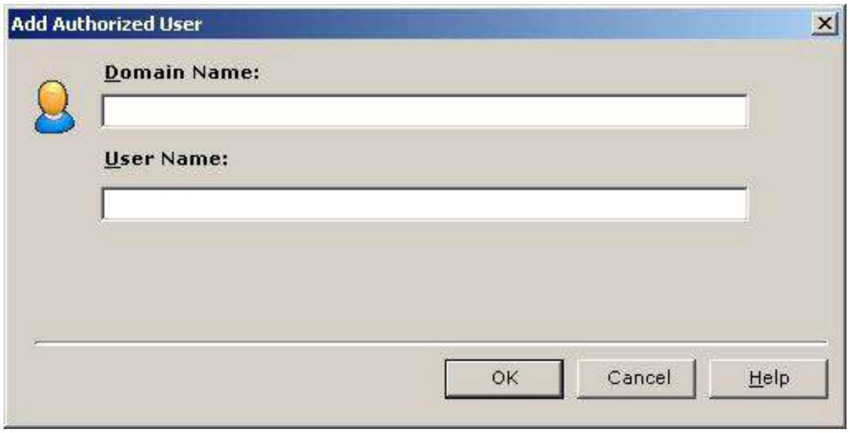
Users can access the Managers, control the policies, add & manage the Agents, set up the rollup schedules, and maintain the Report Console.

To **add** a new authorized user for a Manager Group:

Highlight the desired Manager Group and choose one of the following:

Click on **System** → **New** → **Authorized User**
OR
Click on the toolbar icon: **Authorized User**.
OR
Right click on the Manager Group and click **Authorized User**

1. Insert the authorized user name.
2. Click **OK**.



Add Authorized User

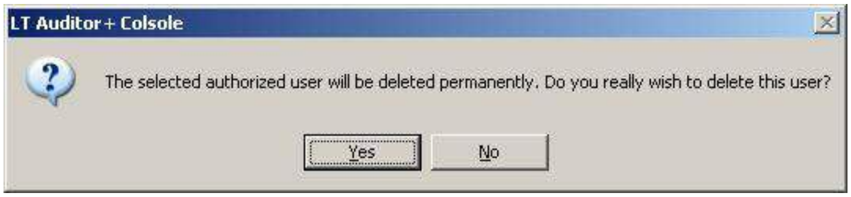
To add the same user to more than one Manager Group, repeat the steps above for each Manager Group this user is authorized to access.

To delete an authorized user for a Manager Group, highlight the desired Manager Group and choose one of the following:

Click on **System** → **Delete**
OR
Highlight the desired authorized user.
Click **Delete** on the toolbar icon.
OR

1. Right click on the authorized user.
2. Click **Delete.**

3. If there are other users assigned to this Manager, the following screen will be displayed:

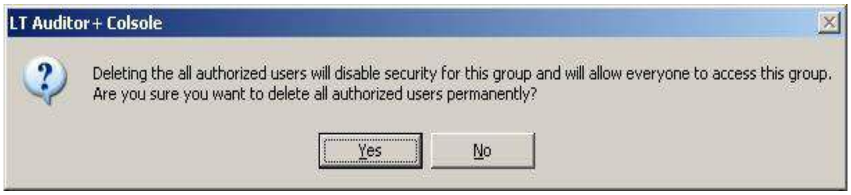


LT Auditor+ Colsole

The selected authorized user will be deleted permanently. Do you really wish to delete this user?

4. Click **Yes**.

5. If this is the only user assigned to this Manager, the following screen is displayed:



LT Auditor+ Colsole

Deleting the all authorized users will disable security for this group and will allow everyone to access this group.
Are you sure you want to delete all authorized users permanently?

6. Click **Yes**.

Authorized User Legacy Settings

Adding an authorized user is similar for Legacy (version 8.0) settings as for the previous section. If a Manager is still using 8.0 settings, apply the 8.0 Agents to this Manager. Load balancing will not apply to the legacy systems until they are upgraded to version 9.

To launch **Authorized User Legacy Settings** from the Management Console:

1. Select **Agent Group**
2. Select **Legacy LT Auditor+ settings** OR Right click on the **Agent Group**
3. select **Legacy LT Auditor + settings** OR
4. Select **Agent Group → Options → LT Auditor+ settings**

To select a **Security Policy**, select one of the following:

1. Highlight **Security Policy**
   a. **Click System → Add Authorized User OR**
   b. **Highlight Security Policy**
   c. **Click Add Authorized User on the toolbar OR**
   d. Highlight **Security Policy**, click **Add Authorized Users.**
2. Provide authorized user
3. Click **OK**.

To modify the authorized user

1. Click **Modify**
2. Change the data
3. Click **OK**.

To delete the authorized user

1. Click **Delete**.
2. Click **Yes** when prompted for confirmation.

Appendix

System Update Utility

Overview

The purpose of the Patch Update Utility is to automatically install patches remotely on LT Auditor+ Agents from a Manager machine hosting LT Auditor+ v9 for Windows.

Blue Lance will periodically release patches for LT Auditor+ v9 for Windows. These patches can be downloaded from the Blue Lance support website at www.bluelance.com/support.
Following the patch download, the Patch Update Utility can be used to ensure that you have installed and deployed a patch across your environment for optimal performance.

A Patch Update Utility is only available to users that have installed version 9.0.065.0 on your machine that hosts the Management Console for LT Auditor+ v9 for Windows.

It can only be successful under the following conditions:

- The LT Auditor+ Manager and the LT Auditor+ Management Console must be upgraded with the latest patches.
- Direct access is required to Manager that hosts LT Auditor+ v9 for Windows.
- User performing a patch must have administrative rights on the Manager machine.

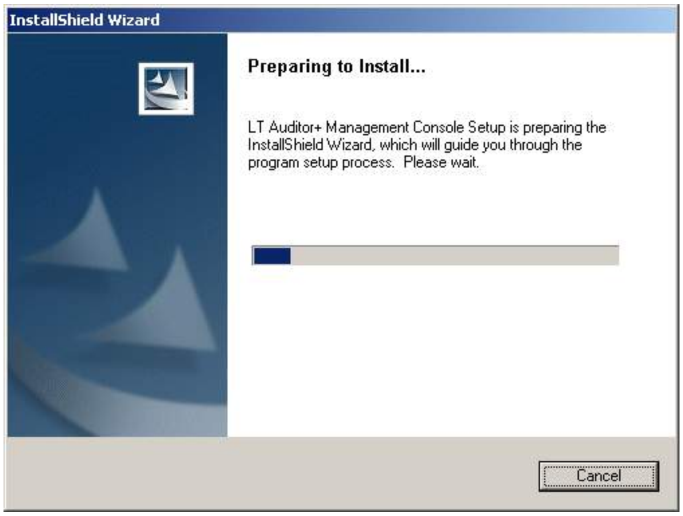
The Management Console Patch can be downloaded off of the website, www.bluelance.com.
Copy and download locally and then execute.

NOTE

System should be accessed/launched by authorized users from existing Management Console application. No other application or process should be allowed to access or launch this application.

The following steps will guide you through the process of running the patch on the Management Console.

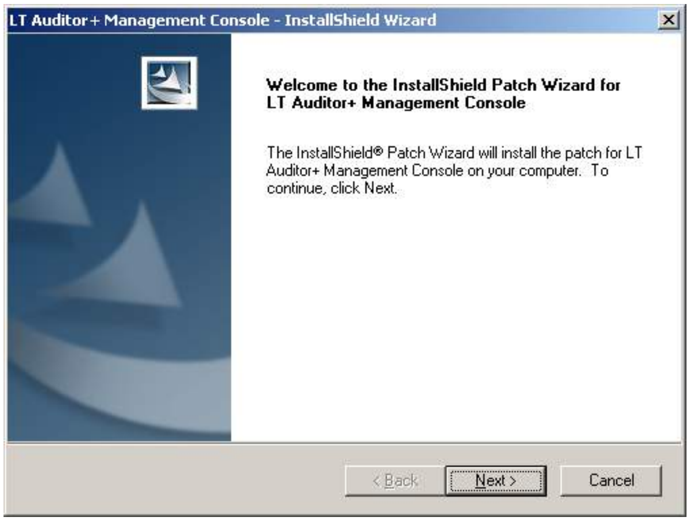
1. Click on the **Update.exe** file for the Management Console to begin the installation.



Preparing to Install...

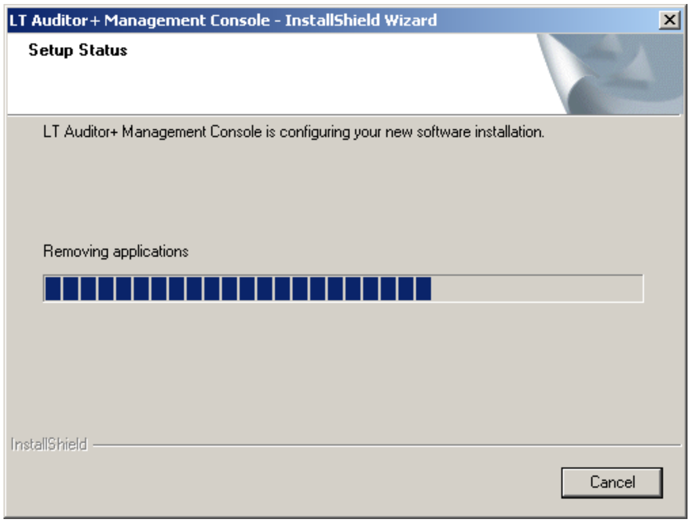
LT Auditor+ Management Console Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.

2. Click **Next** to continue and await the progress.



Welcome to the InstallShield Patch Wizard for LT Auditor+ Management Console

The InstallShield® Patch Wizard will install the patch for LT Auditor+ Management Console on your computer. To continue, click Next.

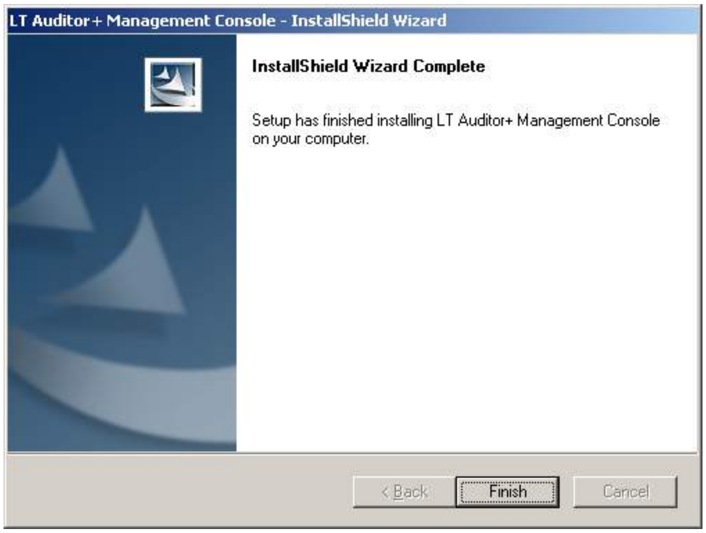

LT Auditor+ Management Console - InstallShield Wizard

Setup Status

LT Auditor+ Management Console is configuring your new software installation.

Removing applications

3. Click **Finish** to complete the installation of LT Auditor+ Management Console.


LT Auditor+ Management Console - InstallShield Wizard

InstallShield Wizard Complete

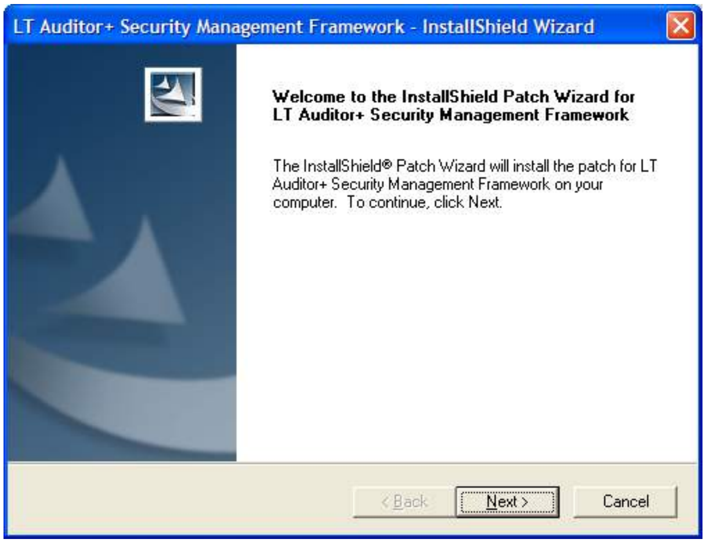
Setup has finished installing LT Auditor+ Management Console on your computer.

The Security Management Framework patch update download can be found on the website directly. You must run the Setup.exe file for the Security Management Framework before proceeding with the patch update.

NOTE

Local patching of Managers requires a system reboot at your convenience.

1. Run the **Setup.exe** file for the Security Management Framework and allow the installation of the patch to begin.

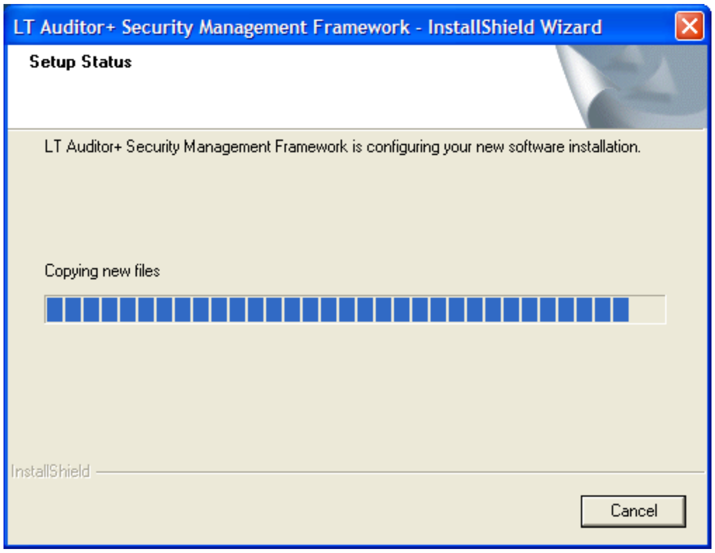


LT Auditor+ Security Management Framework - InstallShield Wizard

Welcome to the InstallShield Patch Wizard for LT Auditor+ Security Management Framework

The InstallShield® Patch Wizard will install the patch for LT Auditor+ Security Management Framework on your computer. To continue, click Next.

4. Click **Next** - Configuration and progress.



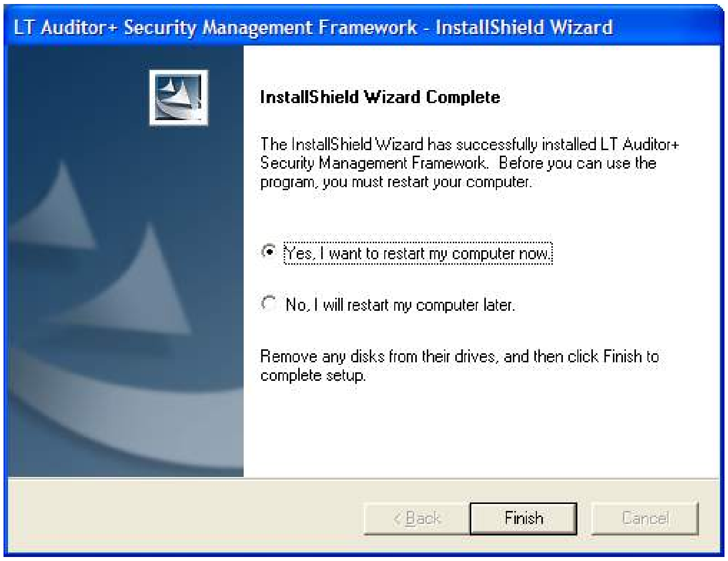
LT Auditor+ Security Management Framework - InstallShield Wizard

Setup Status

LT Auditor+ Security Management Framework is configuring your new software installation.

Copying new files

5. Local patching of the Manager requires a system reboot.
6. Select **Yes** and **Finish.**


LT Auditor+ Security Management Framework - InstallShield Wizard
< Back
Finish
Cancel

InstallShield Wizard Complete

The InstallShield Wizard has successfully installed LT Auditor+ Security Management Framework. Before you can use the program, you must restart your computer.

● Yes, I want to restart my computer now.

○ No, I will restart my computer later.

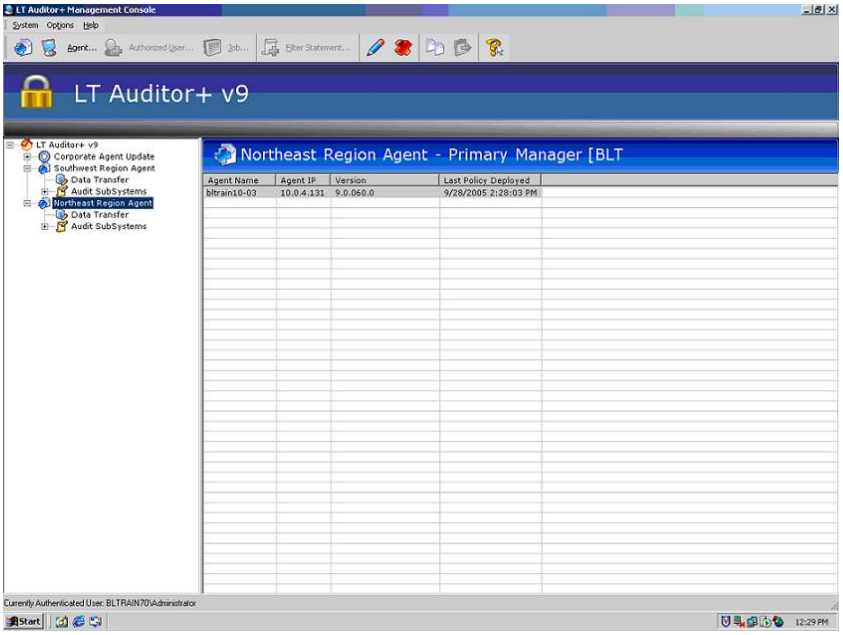
Remove any disks from their drives, and then click Finish to complete setup.

Patch the Agents

Patching the Agents can be done either locally or remotely. Download the Setup.exe file for the Patch Utility from the website, www.bluelance.com for patching the Agents.

The following steps will guide you through the process of remotely patching the Agents through the Management Console.

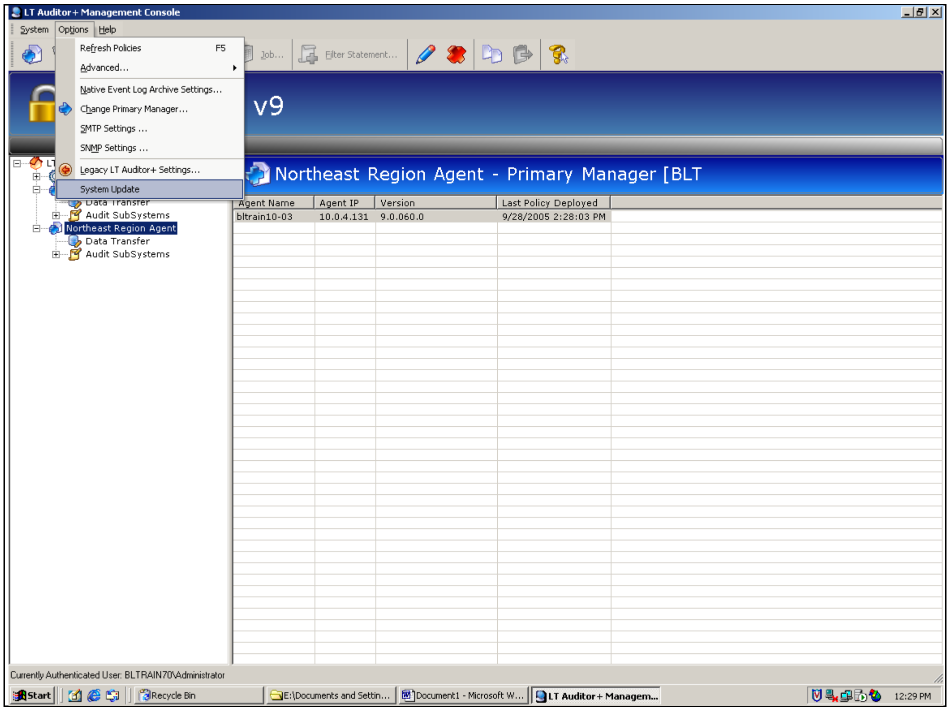
1. Launch the Management Console and authenticate to the database.



Agent Name	Agent IP	Version	Last Policy Deployed
bltrain10-03	10.0.4.131	9.0.060.0	9/28/2005 2:28:03 PM

Currently Authenticated User: BLTRAIN70\Administrator

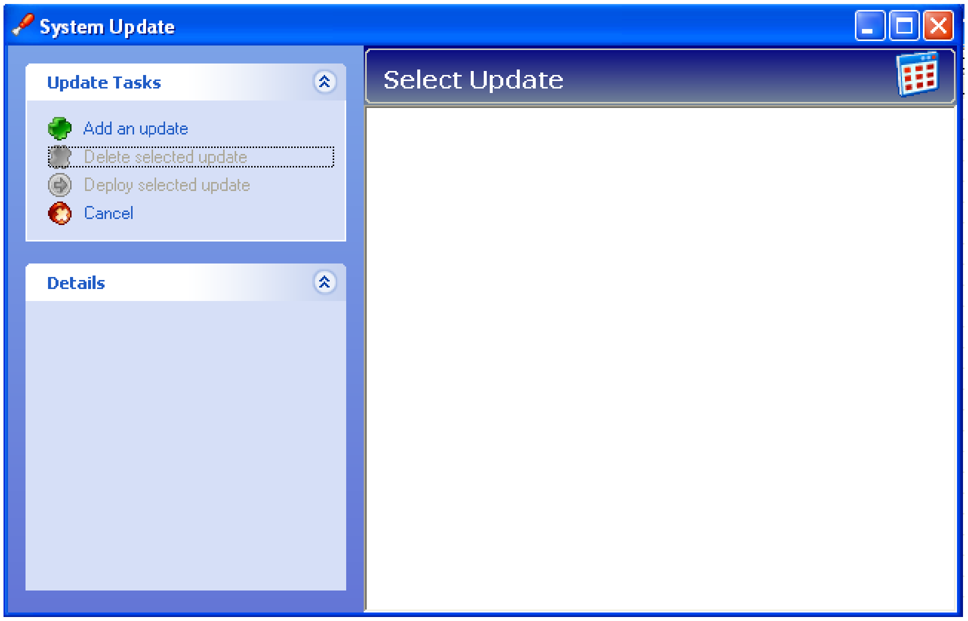
Select **Options** → **System Update** → **Standard**



Agent Name	Agent IP	Version	Last Policy Deployed
bltrain10-03	10.0.4.131	9.0.060.0	9/28/2005 2:28:03 PM

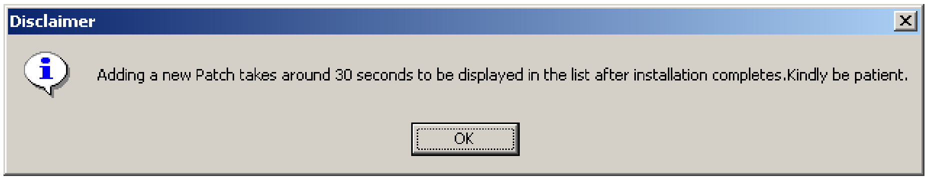
Currently Authenticated User: BLTRAIN70\Administrator

2. This is the screen available once **System Update** has been selected



3. Select **Add an update** to begin the patch update process.

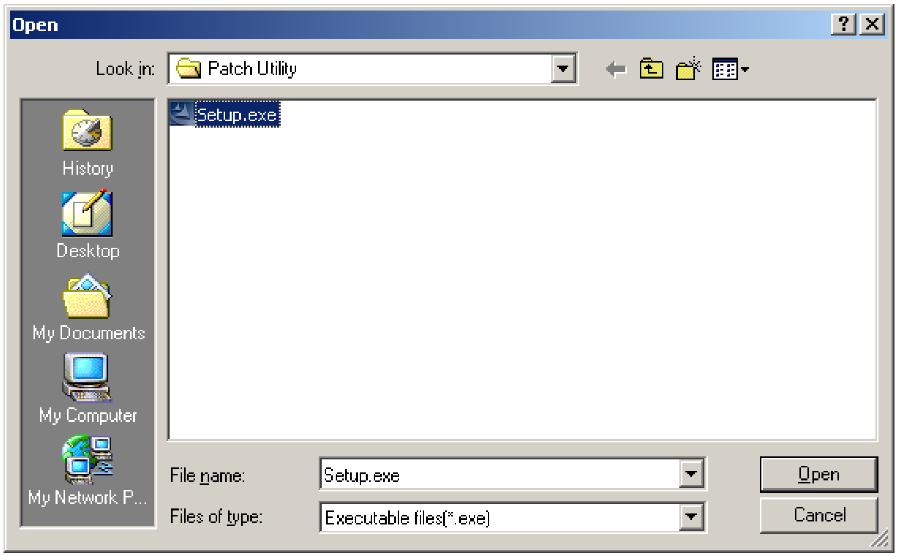
4. A system disclaimer should appear.



Disclaimer

Adding a new Patch takes around 30 seconds to be displayed in the list after installation completes.Kindly be patient.

5. You will then be prompted to locate the patch executable (found on the website or locally copied folder).



Open

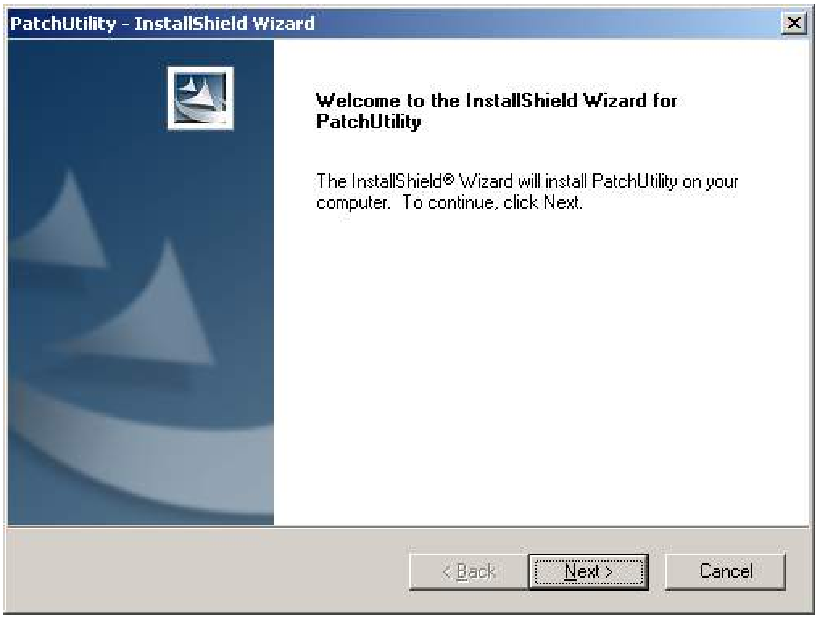
Look in: Patch Utility

Setup.exe

File name: Setup.exe

Files of type: Executable files(*.exe)

6. The Patch Utility will begin its installation.

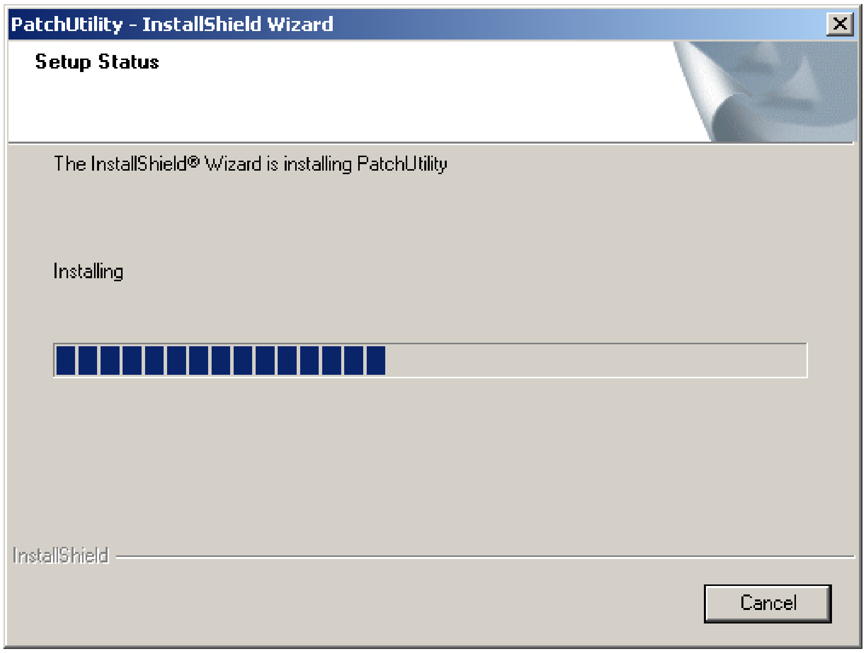


PatchUtility - InstallShield Wizard

Welcome to the InstallShield Wizard for PatchUtility

The InstallShield® Wizard will install PatchUtility on your computer. To continue, click Next.

7. Click **Next**.



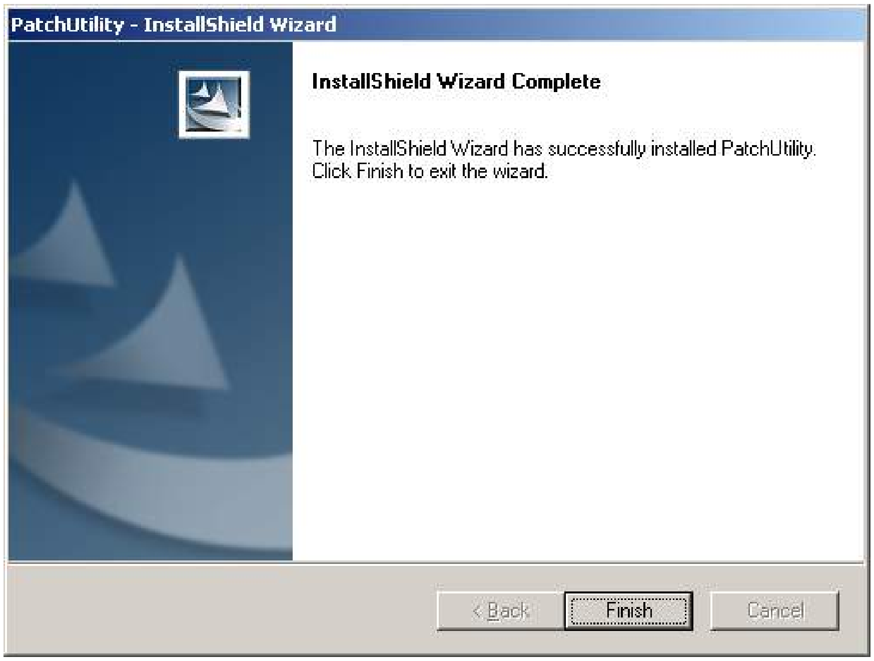
PatchUtility - InstallShield Wizard

Setup Status

The InstallShield® Wizard is installing PatchUtility

Installing

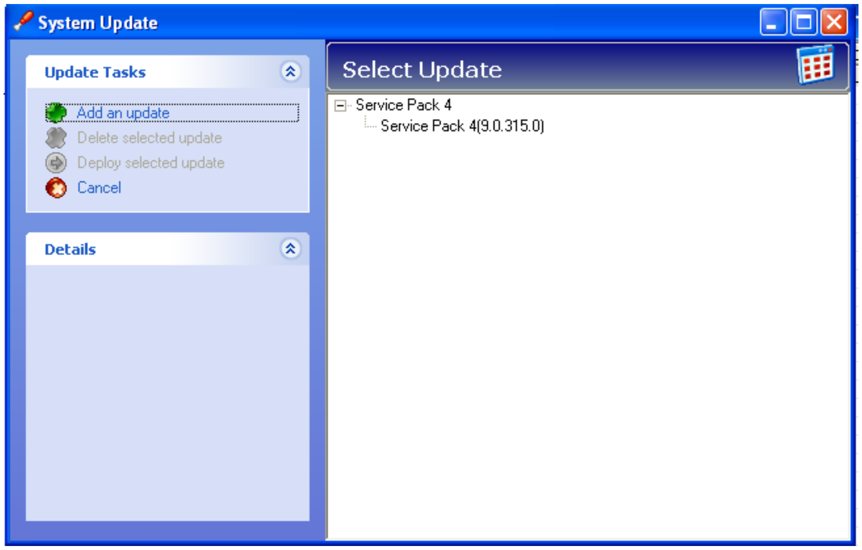
8. Click **Finish** to complete the Patch Utility installation.



InstallShield Wizard Complete

The InstallShield Wizard has successfully installed PatchUtility. Click Finish to exit the wizard.

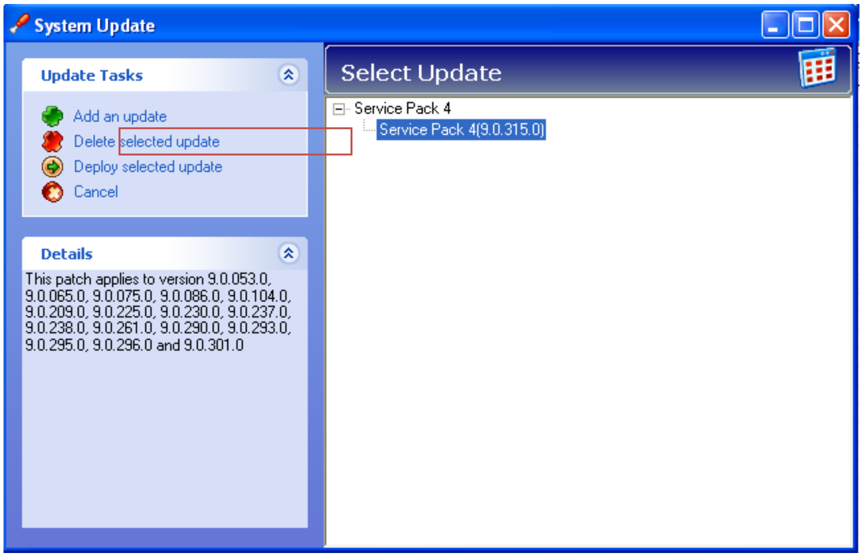
9. The patch update will then appear under the System Update Service Pack 4.
10. Once highlighted the details will inform the user of the version to which the Agent is applicable.



Service Pack 4
Service Pack 4(9.0.315.0)

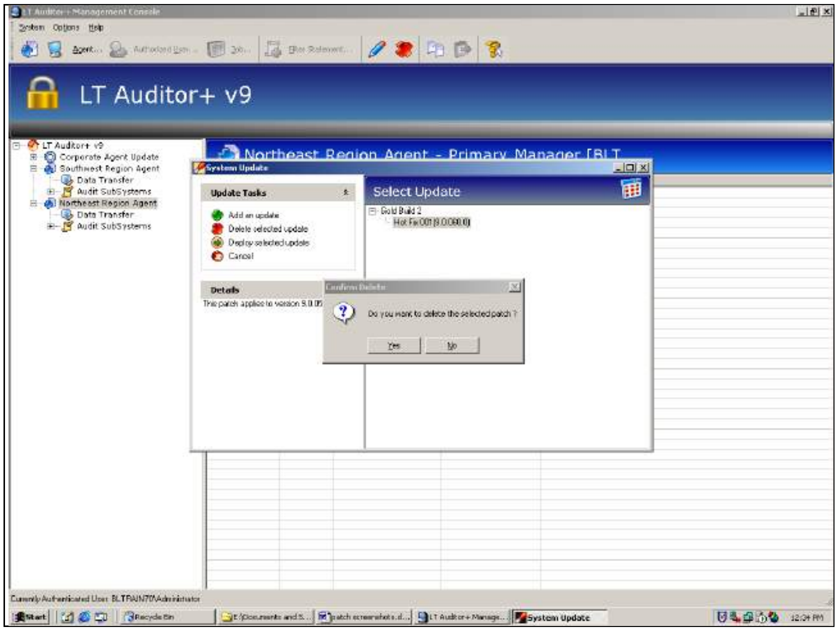
To delete a patch update:

1. Simply highlight the patch update you would like to delete
2. Select **Delete selected update.**



This patch applies to version 9.0.053.0, 9.0.065.0, 9.0.075.0, 9.0.086.0, 9.0.104.0, 9.0.209.0, 9.0.225.0, 9.0.230.0, 9.0.237.0, 9.0.238.0, 9.0.261.0, 9.0.290.0, 9.0.293.0, 9.0.295.0, 9.0.296.0 and 9.0.301.0

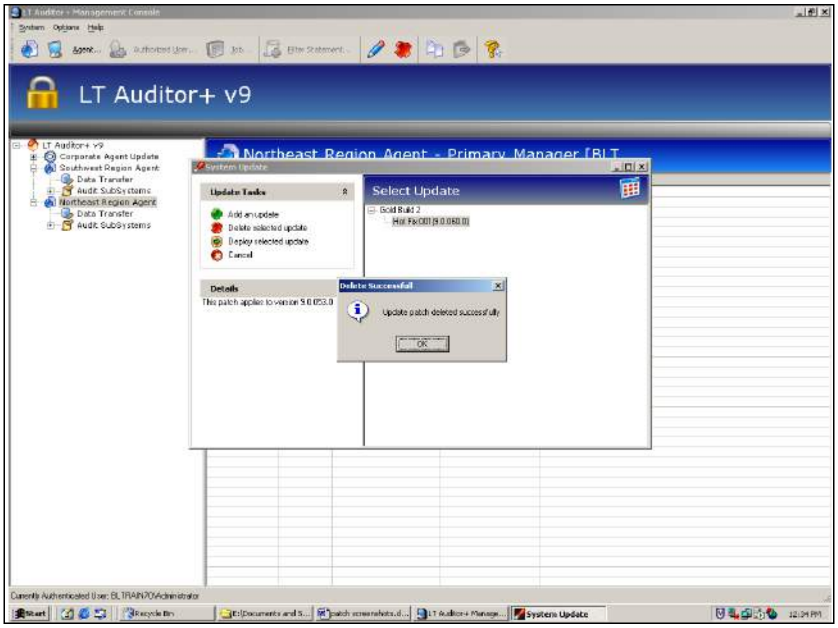
3. Select **Yes** when prompted for confirmation.



This patch applies to version 9.0.05

Do you want to delete the selected patch ?

4. The system will confirm the successfully deleted patch update.
5. Select **OK**.

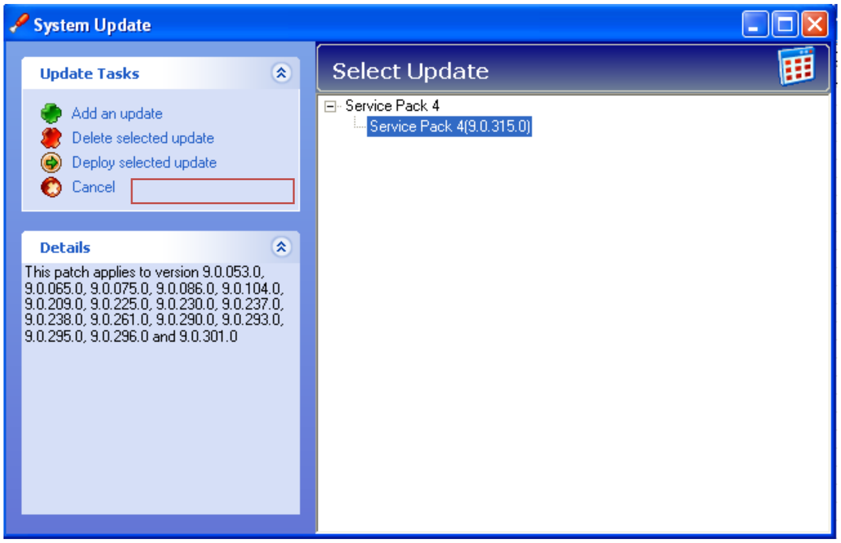


This patch applies to version 9.0.053.0

Update patch deleted successfully

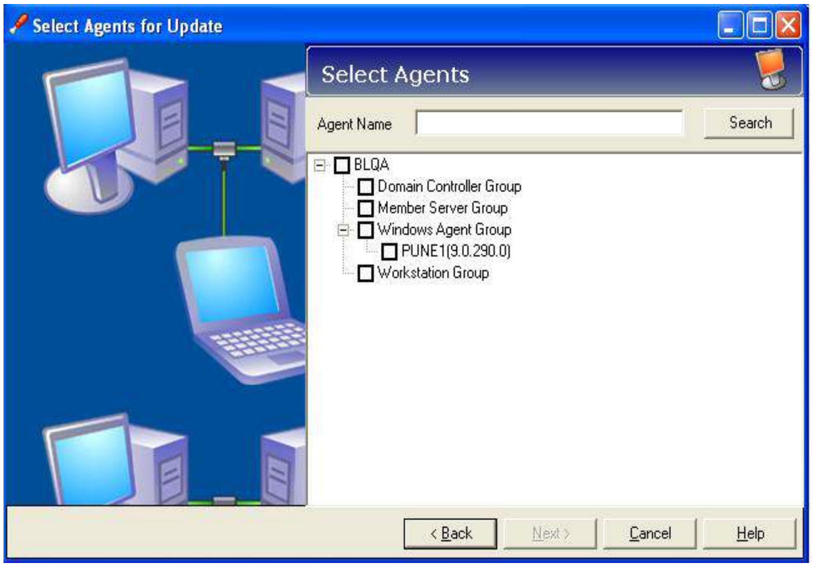
Deploying to a Selected Patch Update

1. Select the patch update of your choice and select **Deploy selected update.**

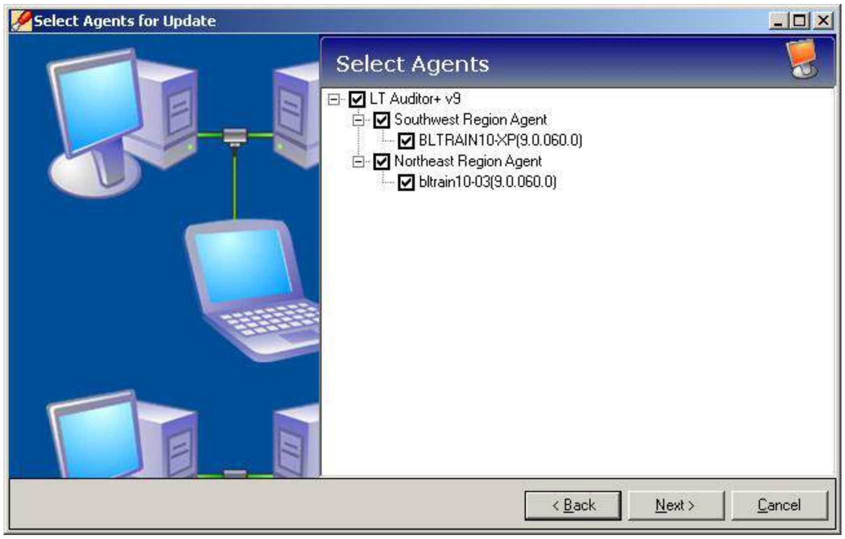


This patch applies to version 9.0.053.0, 9.0.065.0, 9.0.075.0, 9.0.086.0, 9.0.104.0, 9.0.209.0, 9.0.225.0, 9.0.230.0, 9.0.237.0, 9.0.238.0, 9.0.261.0, 9.0.290.0, 9.0.293.0, 9.0.295.0, 9.0.296.0 and 9.0.301.0

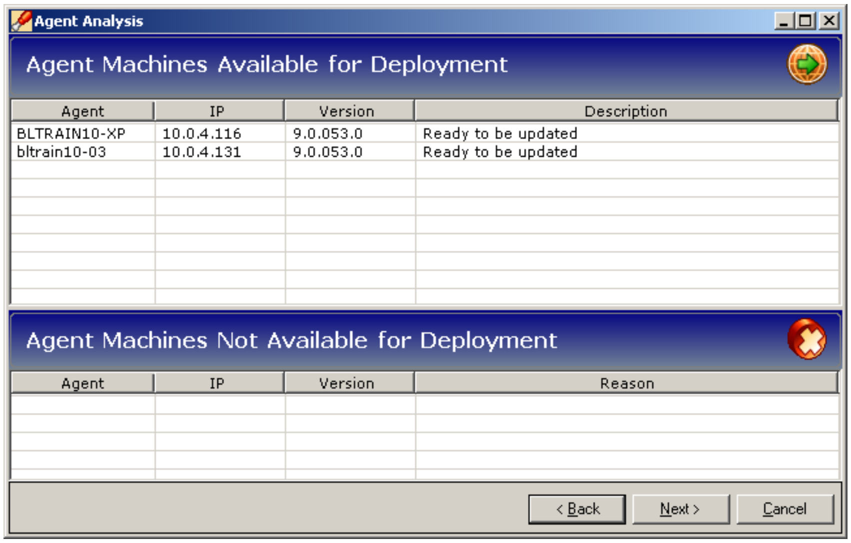
2. Upon selecting **Deploy selected update**, a screen will appear with a list of all the Agents available to which the patch is applicable.



3. Select all or one of the Agents as desired.



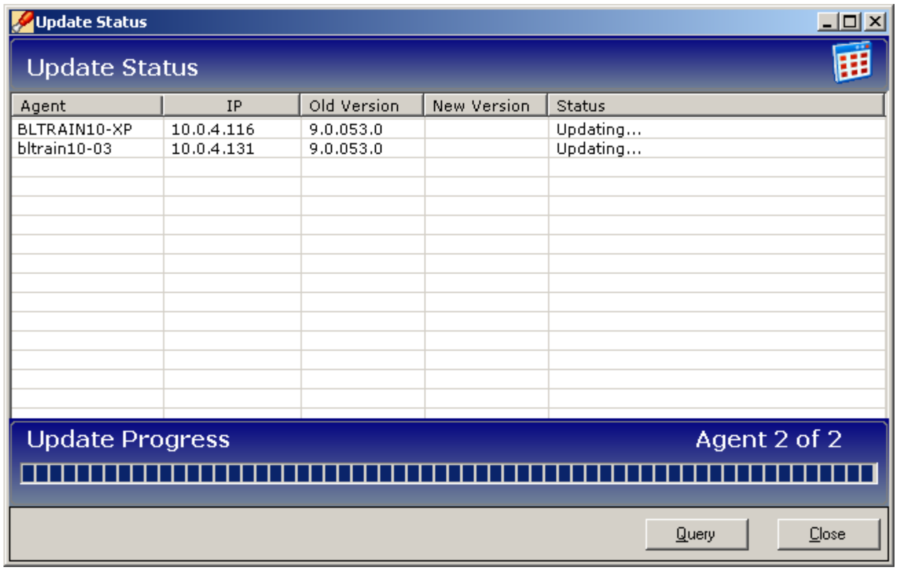
4. This screen will allow the user to watch the progression of the Patch Update Utility.
   If there are Agents that are not available to apply the patch, they will appear in the lower half of this screen, labeled **Agent Machines Not Available for Deployment.**
5. Click **Next**.


Agent Analysis
Agent Machines Available for Deployment
Agent Machines Not Available for Deployment
< Back
Next >
Cancel

Agent	IP	Version	Description
BLTRAIN10-XP	10.0.4.116	9.0.053.0	Ready to be updated
bltrain10-03	10.0.4.131	9.0.053.0	Ready to be updated

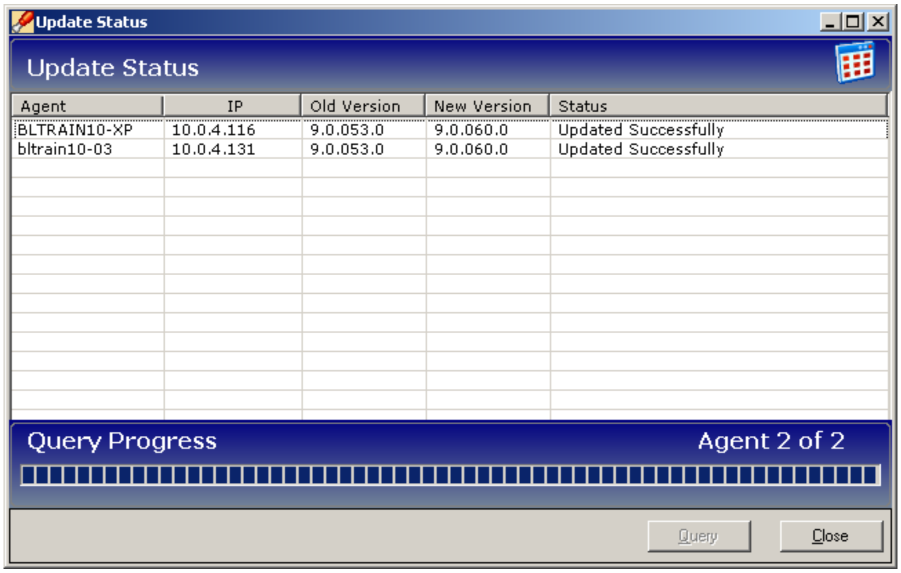
Agent	IP	Version	Reason

6. A screen will appear showing the update status for each Agent.



Agent	IP	Old Version	New Version	Status
BLTRAIN10-XP	10.0.4.116	9.0.053.0		Updating...
bltrain10-03	10.0.4.131	9.0.053.0		Updating...

7. Click **Close** once the update progress has completed.



Agent	IP	Old Version	New Version	Status
BLTRAIN10-XP	10.0.4.116	9.0.053.0	9.0.060.0	Updated Successfully
bltrain10-03	10.0.4.131	9.0.053.0	9.0.060.0	Updated Successfully