

## DefendX Software Control-Audit for Hitachi Installation Guide Version 5.1

This guide details the method for the installation and initial configuration of DefendX Software Control-Audit™ for NAS, Hitachi Edition, from an administrator's perspective. Upon completion of the steps within this document, DefendX Software Control-Audit for NAS, Hitachi Edition will be installed within your enterprise community.



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## **Executive Summary**

Thank you for your interest in DefendX Software Control-Audit<sup>™</sup> for NAS, Hitachi Edition. DefendX Software Control-Audit monitors file and directory operations for users. DefendX Software Control-Audit for NAS, Hitachi Edition extends our best-of-breed technology to include the Hitachi family of products, allowing you to manage NAS-hosted storage as a seamless whole.

Given the architecture of your Hitachi NAS Server, DefendX Software Control-Audit for NAS, Hitachi Edition does its job remotely. DefendX Software Control-Audit for NAS, Hitachi Edition uses a connector service to create a bridge and include Hitachi NAS Servers as full participants in storage environments monitored by DefendX Software Control-Audit. In light of this fact, you will need to install the Hitachi connector on one of the Windows Server<sup>®</sup> 2008 machines in your environment. This may be an existing server, a workstation, or a standalone system.

To be monitored by DefendX Software Control-Audit, the NOS operating system is required on the Hitachi NAS Server. DefendX Software Control-Audit for NAS, Hitachi Edition can be used to manage Hitachi NAS Servers and clusters or any combination of these systems. DefendX Software Control-Audit imposes no restrictions on how you organize or manage your storage. You can impose policies on individual directories, users, and/or groups of users.

To install DefendX Software Control-Audit on Windows, logging on with administrator rights is needed. You will be installing three different services: the DefendX Software Smart Policy Manager<sup>™</sup> service, the DefendX Software Control-Audit service, and the DefendX Software Control-Audit Hitachi Connector service.

The DefendX Software Smart Policy Manager service should be installed with a domain user account as its service account. The DefendX Software Control-Audit service requires a domain user account with local administrative rights on the Hitachi NAS Server. The Hitachi Connector service uses this account as well.

Your hardware should be appropriate for the services running on each machine. The connector itself and DefendX Software Control-Audit for NAS, Hitachi Edition imposes almost no load on either machine.



## **Preparing the Hitachi NAS Server**

To prepare the HNAS Server, the following must be taken into consideration:

- 1. For each EVS (Virtual Server) that is managed by DefendX Software Control-Audit, at least one CIFS server name must be created and must join the same domain as the Control-Audit machine.
- 2. The logon account used to register with the Hitachi NAS Server (the account that will be assigned to the DefendX Software Control-Audit service) needs to be a member of the Hitachi NAS Server's local group Backup Operators. This can be added from the Hitachi NAS Server Command Line Interface (CLI) using the following command:

```
localgroup add "Backup Operators"
<FQDomainName\AccountName>
```

3. The File-Filtering feature must be enabled in the EVS. To enable the File-Filtering feature, use the following command:

```
fsm set allow-defendx-file-filtering true
```

# Preparing the DefendX Software Control-Audit Windows Machine

To prepare the DefendX Software Control-Audit Machine, you need to add HOSTS and LMHOSTS file entries that include the IP address and the CIFS server name of the EVS. The IP address should be the address of the dedicated network.



## **Requirements**

#### DefendX Software Control-Audit for NAS, Hitachi Edition Server Requirements

DefendX Software Control-Audit for NAS is installed on a server in your environment. The hardware components of this server must be suitable for our software operation, and our requirements are the minimum necessary. If your server is also hosting antivirus or other programs, your environment's requirements may be greater than those in the following list:

- 1 GHz CPU
- Windows Server 2008 or Later
- 1 GB RAM
- 150 MB free disk space
- Network interface card
- Internet Explorer version 6 or Later or Firefox version 2.x or Later
- IIS version 6 or 7
- Microsoft SQL Server 2005 or Later

**NOTE:** SP3 is recommended to be used if MS SQL server 2005 is the database server.

- SQL Server Reporting Services 2005 or later
- Microsoft .NET Framework 2.0
- ASP.NET AJAX 1.0
- Microsoft Report Viewer 2005 SP1 (installed along with the Report Pack)



#### NOTES:

- $\circ$   $\;$  The Remote Connection to the SQL Server should be enabled.
- The SQL Server user should have **db\_datareader** and **execute** permissions on the Control-Audit database.
- The Reporting Service on the database server must grant access to the currently logged Windows user while installing the application.

#### **Hitachi NAS Server Requirements**

The Hitachi NAS Server to which DefendX Software Control-Audit for NAS, Hitachi Edition will be connected requires the following:

- NOS operating system version 6.1.1684.18 or later.
- Network interface card

**NOTE:** It is strongly recommended that two network adapters be installed on both the Hitachi NAS Server and the Windows Server. The connection between the two servers should be a dedicated connection (i.e., separate from the public network connection). Using a single network adapter will greatly increase the time required to process data and may cause excessive delays in the environment.

### **Before You Begin**

Before running DefendX Software Control-Audit for NAS, Hitachi Edition installer, make sure you have the following ready for a smooth installation:

- 1. The Microsoft SQL Server user name and password for authentication.
- 2. Access to server/Filer.
- 3. The license key you were given when you purchased the Control-Audit product.



## Installation

Prior to installing DefendX Software Control-Audit for NAS, Hitachi Edition, it is highly recommended to verify that the installation server meets the requirements listed in the *Requirements* section of this document.

#### Installing DefendX Software Smart Policy Manager

- 1. Log on to your server by using an account with administrator privileges.
- 2. Run the DefendX Software Control-Audit installer. If DefendX Software Smart Policy Manager is not installed, the following installer will launch automatically. If DefendX Software Smart Policy Manager is installed, you can skip to the section on Installing DefendX Software Control-Audit for NAS, Hitachi Edition.



3. The DefendX Software Smart Policy Manager Installation Wizard opens. Click **Next** to begin the installation.





4. In the License Agreement dialog box, read the end-user license agreement. If you agree to the terms, click I accept the terms of the license agreement and then click Next. If you do not accept the terms, click Cancel to exit the installation.

NTP Software Smart Policy Manager Setup Wizard	×
License Agreement Please read the following license agreement carefully.	B
NTP Software Smart Policy Manager(TM) End-User License By using or copying the accompanying software you are indicating your acceptance of the terms of this license. If you do not agree to the terms of this license, please return the product UNOPENED to your place of purchase for a full refund. GRANT OF LICENSE. NTP Software grants you the right to use Smart Policy Manager ("PRODUCT") on one computer, solely for your or your company's own internal use. In addition to the specified quantity of copies, you may make one (1) additional copy as a backup to the original. However, you may not cause the software to execute or be loaded into the active memory of more computers than the above-specified quantity at any one time. In addition the PRODUCT is licensed solely for the management of local storage	
I do not accept the terms of the license agreement     I do not accept the terms of the license agreement	
<pre></pre>	]

5. In the **Choose Destination Location** dialog box, choose the location where you want to install DefendX Software Smart Policy Manager and then click **Next**.

NTP Software Smart Policy Manager Setup V	Vizard	×
Choose Destination Location Select folder where setup will install files.		NTP. Software®
Setup will install NTP Software Smart Policy Ma	anager in the following folder.	
To install to this folder, click Next. To install to a another folder.	a different folder, click Browse	e and select
Destination Folder C:\Program Files\Smart Policy Manager		Browse
Install5meld	< <u>B</u> ack	Cancel



6. In the **Select Features** dialog box, select the components you want to install and then click **Next**.

NTP Software Smart Policy Manager Setup Wizar	d 🛛 🗶
Select Features Select the features setup will install.	Setware <sup>®</sup>
Select the features you want to install, and deselect t	he features you do not want to install. Description Selecting this option will install all of the components required for the Smart Policy Manager service. The service installation will automatically install the client components.
4.48 MB of space required on the C drive 39249.46 MB of space available on the C drive InstallShield	Back Next > Cancel



7. In the **Service Account** dialog box, when prompted for a Windows domain user account to run the DefendX Software Smart Policy Manager service, enter the username and password for a domain user account with administrative rights on the local machine. Click **Next**.

NTP Software	Smart Policy Manager Setup Wizard	×
Service Acc	count:	Sefeware
Enter the se	rvice account the Smart Policy Manager service is to run und	der.
Service	Administrator	
Password:	•••••	
Confirm:	·····	
InstallShield —	< <u>B</u> ack <u>N</u> ex	t> Cancel



8. In the **Smart Policy Manager Database Location** dialog box, enter the directory name where you want to install the DefendX Software Smart Policy Manager database or just accept the default location. Click **Next**.

NTP Software Smart Policy Manager Setup Wizard	×
Smart Policy Manager Database Location	Software <sup>®</sup>
Setup will install the Smart Policy Manager database in the following folder.	
To install to this folder, click Next. To install to a different folder, click Browse another folder.	and select
Destination Folder C:\Program Files\Smart Policy Manager\data store	Browse
< <u>B</u> ack <u>N</u> ext>	Cancel



9. In the Setup Type dialog box, select the DefendX Software Smart Policy Manager installation type for your environment. If installing to a new environment with no prior DefendX Software Smart Policy Manager installations, click Next. If installing in an environment in which DefendX Software Smart Policy Manager is already running, choose Adding to an enterprise installation and click Next.

NTP Software Smart Policy Manager Setup V	Vizard	×
Setup Type Select the setup type that best suits your needs	3.	Software <sup>®</sup>
Choose the type of Smart Policy Manager insta	llation you are doing.	
• First time installation in the enterprise		
O Adding to an enterprise installation		
InstallShield		
	< <u>B</u> ack <u>N</u> ext>	Cancel



10. In the **Smart Policy Manager Initial Setup Parameters** dialog box, provide DefendX Software Smart Policy Manager with a name for your organization and a location name for this DefendX Software Smart Policy Manager instance, or accept the default settings. Click **Next**.

NTP Software Smart	Policy Manager Setup Wizard	×
Smart Policy Mana	ager Initial Setup Parameters	STP. Software®
Enter the initial orga	nization and location names.	
Organization:	My Organization	
Location:	My Site	
InstallShield	< <u>B</u> ack	Next > Cancel



11. In the **Start Copying Files** dialog box, review your configuration information. Click **Back** to make any changes; otherwise, click **Next** to begin copying the files.

NTP Software Smart Policy Manager Setup Wizard	×
Start Copying Files Review settings before copying files.	Software <sup>®</sup>
Setup has enough information to start copying the program files. If you want to re change any settings, click Back. If you are satisfied with the settings, click Next copying files.	eview or to begin
Current Settings:	
Destination Path: C:\Program Files\Smart Policy Manager Smart Policy Manager database directory: C:\Program Files\Smart Policy Manager\data store Components to install: Smart Policy Manager Service Smart Policy Manager Administration Tool	
InstallShield <u>Back Next &gt;</u>	Cancel

12. If you want to view the DefendX Software Smart Policy Manager readme file, check the Yes, I want to view the readme file checkbox. Then click Finish.





#### Installing DefendX Software Control-Audit for NAS, Hitachi Edition

- 1. If you have followed the steps in the Installing DefendX Software Smart Policy Manager section, you will be directed to the next step automatically.
- 2. When the DefendX Software Control-Audit for NAS Installation Wizard opens, click **Next** to begin the installation.





3. In the License Agreement dialog box, read the end-user license agreement. If you agree to the terms, click I accept the terms of the license agreement and then click Next. If you do not accept the terms, click Cancel to exit the installation.

NTP Software File Auditor for NAS Setup
License Agreement Please read the following license agreement carefully.
NTP Software File Auditor(tm) for NAS End User License By using or copying the accompanying software you are indicating your acceptance of the terms of this license. If you do not agree to the terms of this license, please return the product UNOPENED to your place of purchase for a full refund. GRANT OF LICENSE. NTP Software grants you the right to use NTP Software File Auditor for NAS ("the PRODUCT") to manage the number of NAS systems for which you have paid a license fee, provided the use is solely for your personal or your company's own internal use. NTP Software grants you the rights to run the Windows connector components of NTP Software File Auditor for NAS on one or more Windows systems, up
C I do not accept the terms of the license agreement
<pre></pre>

4. In the **Choose Destination Location** dialog box, choose the location where you want to install DefendX Software Control-Audit and then click **Next**.

NTP Software File Auditor for NAS Setup	×
Choose Destination Location Select folder where setup will install files.	Software <sup>®</sup>
Setup will install File Auditor for NAS in the following folder.	
To install to this folder, click Next. To install to a different folder, click Brow another folder.	ise and select
Destination Folder C:\Program Files\NTPSoftware\File Auditor for NAS InstallShield	Browse
< <u>B</u> ack	Cancel



5. In the Select Features dialog box, select the components to be installed on the local machine. The Admin component allows for administration of the DefendX Software Control-Audit service. The Hitachi Connector component is required if this machine will need to communicate with a Hitachi NAS Server for file- and directory-monitoring purposes. The BOT Service component is required if you wish to have the Business Over watch Tasks Service & its configuration interface.

NTP Software File Auditor for NAS Setup	×
Select Features Select the features setup will install.	Seftware*
Select the features you want to install, and des Admin Service Hitachi Connector BOT Service	elect the features you do not want to install. Description Selecting this option will install all of the components required to run the NTP Software File Auditor administrative client. If you choose not to install these components you may still install the NTP Software File Auditor service, but you will not be able to configure it from this machine.
15.74 MB of space required on the C drive 4047.70 MB of space available on the C drive InstallShield	< <u>B</u> ack <u>N</u> ext > Cancel



6. In the **DefendX Software Control-Audit** dialog box, provide your SQL Server name and your database name.

NTP Software	File Auditor for NAS Setup	×
NTP Softwa	are File Auditor	Sectionare <sup>®</sup>
Please spe	cify the SQL server name and database name.	
Server	MyServer	
Database	MyDatabase	
InstallShield —	< <u>B</u> ack <u>N</u> ext >	Cancel



7. In the **DefendX Software Control-Audit** dialog box, specify the security setting to be used to connect to the SQL Server for database and tables creation.

NTP Software File Auditor for NAS Set	ир	×
NTP Software File Auditor Database Authentication Information		Software®
Please specify the security settings for o	connecting to sql server.	
Database connection credentials:		
Integrated Security		
SQL Security		
User Name		
Password		
Confirm		
	< Back N	lext > Cancel

If the database doesnot exist, the question dialog below will be displayed. Click the **Yes** button. If you wish to create the database yourself, run the SQL Scripts in the Control-Audit for NAS installation folder after the setup is complete. The script file is "Control-Audit DB Schema and User Script.sql".



**NOTE:** If you are upgrading from Control-Audit 2.2 or older versions, the installer will prompt for upgrading the database. Alternatively, you can run the upgrade script manually; the script file "Control-Audit DB Upgrade Script.sql" is located in the Control-Audit installation directory after the setup is complete.



8. In the User Information dialog box, provide your company name. Select the Install Evaluation Version option if you wish to try the evaluation version of the software. Otherwise, please insert your DefendX Software Control-Audit and Hitachi Connector serial numbers. Click Next.

NTP Software File Auditor for NAS Set	up 🗙
User Information Enter your registration information.	Sefeware
Please enter the name of the company I to install an evaluation version or the pro	for whom you work and select whether you want oduction version.
Company Name: My Company	
C Install Evaluation Version	
<ul> <li>Install Production Version</li> </ul>	
File Auditor Serial Number:	FILE AUDITR SERIAL NUMBER
Hitachi Connector Serial Number:	HITACHI CONNECTOR SERIAL NUMBER
InstallShield	< <u>B</u> ack <u>N</u> ext > Cancel

9. In the Account Type dialog box, specify the account type to be used. Click Next.

NTP Software File Auditor for NAS Setup	×
Account Type Please specify the type of account to use.	Section are
The File Auditor service can run as a specified account or the built-in syst	em account.
Specify an account to use.	
<ul> <li>Use the built-in system account. The following features are disabled:</li> <li>The ability to specify UNC paths in policies.</li> <li>Active Directory/LDAP email address lookups.</li> <li>User account lookups across multiple domains.</li> </ul>	
InstallShield <u>Kack</u>	> Cancel



10. In the **Service Account** dialog box, when specifying an account, enter a username with local administrative privileges. This account will be used to log in and monitor file and directory operations. Click **Next**.

NTP Software I	File Auditor for NAS Setup
Service Acc	count Setware*
Enter the se account mu Auditor SQL	rrvice account the File Auditor Connector service is to run under. This service ist have SELECT, INSERT, DELETE, and CREATE TABLE permissions on the File . Database.
Service	DOTNET\Administrator
Password:	XXXXXXXXX
Confirm:	хжижи
InstallShield —	
	< <u>B</u> ack <u>N</u> ext > Cancel

11. In the **Select Program Folder** dialog box, select the program folder to host the DefendX Software Control-Audit for NAS startup group. Click **Next**.

NTP Software File Auditor for NAS Setup	×
Select Program Folder Please select a program folder.	Software <sup>®</sup>
Setup will add program icons to the Program Folder listed below. You may typ name, or select one from the existing folders list. Click Next to continue.	e a new folder
Program Folder:	
NTP Software File Auditor for NAS	
Existing Folders:	
Accessories Administrative Tools Microsoft SQL Server 2005 Microsoft SQL Server 2008 Microsoft Visual Studio 2005 NTP Software File Auditor NTP Software File Auditor for NAS	
Startup	-
InstallShield	Cancel



12. In the **Start Copying Files** dialog box, review your components and Hitachi connector information. Click **Back** to make any changes; otherwise, click **Next** to begin copying the files.

NTP Software File Auditor for NAS Setup		×
Start Copying Files Review settings before copying files.		Sectionare <sup>®</sup>
Setup has enough information to start copying t change any settings, click Back. If you are sat copying files.	he program files. If you want t isfied with the settings, click N	o review or ext to begin
Current Settings:		
Destination Path: C:\Program Files\NTPSoftware\File Audito Components to install: File Auditor Service File Auditor Administration Tool File Auditor Hitachi Connector Bussiness Overwatch Tasks Service and 0 Start Menu Folder:	r for NAS Configuration Interface	▲ ■ ■
InstallShield		
	< <u>B</u> ack <u>Next</u> >	Cancel



13. If you do not want to view the DefendX Software Control-Audit for NAS readme file, clear the **Yes, I want to view the readme file** checkbox. When you click **Finish**, the DefendX Software Control-Audit for NAS, Hitachi Edition Configuration Wizard will open.

NTP Software File Auditor for NAS Setup		
	NTP Software Installation Wizard for File Auditor for NAS Complete	
	The Installation Wizard has successfully installed File Auditor for NAS. Click Finish to exit the wizard.	
	Yes, I want to view the readme file.	
Sofeware		
- ur	< <u>B</u> ack <b>Finish</b> Cancel	

14. Once you click Finish, the Hitchi EVS Configuration Wizard will be displayed.



#### Installing DefendX Software Control-Audit Reports, Hitachi Edition

1. When the DefendX Software Control-Audit for Reports Wizard opens, click **Next** to begin the installation.

**NOTE:** The user installing the Control-Audit Reports must be assigned the Content Management role. To assign a user the Content Management role; follow the following steps:

- a. Open SQL Server Reporting Services URL on the host machine example: [http:// [SQLReportingHostMachine]/Reports].
- b. Navigate to the **Properties** tab.
- c. Navigate to the **Security** tab.
- d. Create a new Role by clicking **New Role Assignment** or edit an already existing Group or User.





2. In the License Agreement dialog box, read the end-user license agreement. If you agree to the terms, click I accept the terms of the license agreement and then click Next. If you do not accept the terms, click Cancel to exit the installation.

NTP Software File Auditor Reports™ - InstallShield Wizard	×
License Agreement Please read the following license agreement carefully.	Software <sup>®</sup>
End User License By using or copying the accompanying software you are indicating your a terms of this license. If you do not agree to the terms of this license, pleas product UNOPENED to your place of purchase for a full refund. GRANT OF LICENSE. NTP Software grants you the right to use NTP Sof Auditor(Reports (Ithe PRODUCTI) on the number of computers for which license fee, provided the use is solely for your personal or your company's use. You may not cause the software to execute or be loaded into the active r computers than the above-specified quantity at any time. Furthermore, the licensed solely for the management of local storage devices and is not lice	Cceptance of the e return the tware File you have paid a s own internal memory of more e PRODUCT is ensed for cluster ↓
I accept the terms of the license agreement     I do not accept the terms of the license agreement InstallShield	
< <u>B</u> ack <u>N</u> ext :	Cancel

3. In the **Customer Information** dialog box, provide your user name and the company name. Click **Next**.

NTP Software File Auditor Reports™ - InstallShield Wizard	×
Customer Information Please enter your information.	NTP. Sectionare
Please enter your name and the name of the company for which you work.	
User Name:	
username	
<u>C</u> ompany Name:	
Company Name	
InstallShield	
< <u>B</u> ack <u>N</u> ext >	Cancel



4. In the **Choose Destination Location** dialog box, choose the location where you want to install DefendX Software Control-Audit Reports and then click **Next**.

NTP Software File Auditor Reports™ - InstallShield Wizard	×
Choose Destination Location Select folder where setup will install files.	NTP. Setware
Setup will install NTP Software File Auditor Reports <sup>™</sup> in the following folder	
To install to this folder, click Next. To install to a different folder, click Brow another folder.	ise and select
Destination Folder C:\\NTP Software File Auditor Reports™	Browse
Install9held < Back	Cancel

5. In the **DefendX Software Control-Audit** dialog box, specify the URL of the reporting service and the destination folder. Click **Next**.

NTP Software	File Auditor Reports™- InstallShield Wizard	×
NTP Softwa	are File Auditor	Software <sup>®</sup>
Please spe	cify the url of the reporting service and the destination folder.	
ΗU	http://localhost/ReportServer	
Folder	NTP Software File Auditor Reports	
InstallShield —	< <u>B</u> ack <u>N</u> ext	> Cancel



6. In the **DefendX Software Control-Audit** dialog box, specify the web application virtual directory. Click **Next**.

NTP Software I	File Auditor Reports™ - InstallShield Wizard
NTP Softwa	are File Auditor
Please spec reports.	cify the virtual directory of the web application that will be used to display the
Directory	FileAuditorReportViewer
InstallShield —	< <u>B</u> ack <u>N</u> ext > Cancel

7. In the **DefendX Software Control-Audit** dialog box, specify the SQL Server name and the database name hosted on the SQL Server. Click **Next**.

NTP Software	File Auditor Reports™ - InstallShield Wi	zard 🔀
NTP Softwa	re File Auditor	Septemare <sup>®</sup>
Please spe	cify the SQL database server name and databa	se name.
Server	(local)	
Database	FileAuditor	
InstallShield —	< <u>B</u> acl	< <u>N</u> ext > Cancel

8. In the **DefendX Software Control-Audit** dialog box, specify the security setting to connect to the SQL Server database. Click **Next**.



NTP Software File Audi	tor Reports™ - Install§	Shield Wizard		×
NTP Software File A	uditor		Ņ	Software <sup>®</sup>
Please specify the se	curity settings for connecti	ng to sql server.		
C Integrated Se	curity			
<ul> <li>SQL Security</li> </ul>				
User Name	FAReportingUser			
Password	******			
Confirm	*****			
		< <u>B</u> ack	<u>N</u> ext ≻	Cancel



#### NOTES:

- Control-Audit has a default user "DFXReportingUser" and default password "DFXReportingUser" that you can use or change.
- If the **SQL Security** setting was selected, the user should have at least the db\_datareader, db\_datawriter, and execute permissions.
- For Historical Data feature to function properly under the **SQL Security** setting, "DFXReportingUser" user should have ADMINISTER BULK OPERATIONS permission to the database, along with ALTER and INSERT permissions to the HistoricalOperations and HistoricalDACLs tables. Control-Audit Installer attempts to set these permissions during installation.
- If the **Integrated Security** setting was selected, the Control-Audit Reports data source will use the logged-in Windows user account to access the Database. The Windows user account must be given read access to the Control-Audit Database, or that user account must be added to a group that has read access to the Control-Audit Database.
- For Historical Data feature to function properly under the **Integrated Security** setting, The windows user account who will recall the historical data should have ADMINISTER BULK OPERATIONS permission to the database, along with ALTER and INSERT permissions to the HistoricalOperations and HistoricalDACLs tables.
- To change the Control-Audit Reports data source, you need to do the following:
- 1. Open SQL Server Reporting Services Manager URL on the host machine [http:// [SQLReportingHostMachine] /Reports].
- 2. Open the **DefendX Software Control-Audit Reports** folder or the reports folder specified in the installation.
- 3. Open **DFXPOps**.
- 4. Specify the needed data source.
- The network users who should run to the reports must assigned to the browser role on reporting Service reports. To give a user or group access to the reports, you need to do the following:
- 1. Open SQL Server Reporting Services Manager URL on the host machine [http://[SQLReportingHostMachine]/Reports].
- 2. Open the **DefendX Software Control-Audit Reports** folder or the reports folder specified in the installation.



- 3. Open the **Properties** top tab, then select the **Security** left tab.
- 4. Click on New Role Assignment.
- 5. Write the user or group name, select the **Browser** role, then click **OK**.



- 9. If the Please upgrade to SP3 dialog box was displayed, click OK.
- 10. In the **Select Program Folder** dialog box, select the program folder to host the DefendX Software Control-Audit for NAS startup group. Click **Next**.

NTP Software File Auditor Reports™ - Instal	IShield Wizard	×
Select Program Folder Please select a program folder.		Sectionare
Setup will add program icons to the Program Fo name, or select one from the existing folders list	older listed below. You may typ t. Click Next to continue.	be a new folder
Program Folder:		
NTP Software File Auditor		
Existing Folders: Access IBM Accessories Administrative Tools Adobe Audio Related Programs Canon iP1800 series Canon iP1800 series Canon Utilities Canon Utilities Card Scanning Solutions		
InstallShield	< <u>B</u> ack <u>N</u> ext >	Cancel



11. In the **Ready to Install the Program** dialog box, click **Back** to make any changes; otherwise, click **Install** to begin copying the files.

NTP Software File Auditor Reports™- InstallShie	eld Wizard 🔀
<b>Ready to Install the Program</b> The wizard is ready to begin installation.	Steware*
Click Install to begin the installation.	
If you want to review or change any of your installat the wizard.	ion settings, click Back. Click Cancel to exit
InstallShield	
	< <u>B</u> ack Install Cancel

12. You have successfully installed the DefendX Software Control-Audit Reports. Click Finish.





#### **Configuring Control-Audit Reports Website Security**

For the Historical Data feature to function properly under the **Integrated Security** setting, the Windows user account who will recall the historical data should have ADMINISTER BULK OPERATIONS permission to the database, along with ALTER and INSERT permissions to the HistoricalOperations and HistoricalDACLs tables.

This section will help you configure Control-Audit Reports website to user Integrated security authentication to operate with DefendX Software ODDM and Microsoft SQL Server.

- 1. Create a domain user account to be assigned to Control-Audit Reports website.
- 2. In SQL Server, create a login for that user and grant the user the following privileges to Control-Audit database:
  - a. db\_datareader
  - b. db\_datawriter
  - c. EXECUTE.
- 3. If you will use Control-Audit ODDM Archiving feature, you must grant the user the following privileges as well:
  - a. ADMINISTER BULK OPERATIONS permission to Control-Audit database.
  - b. ALTER and INSERT permissions to the HistoricalOperations and HistoricalDACLs tables.
  - c. Read and Change permissions to a share on an DefendX Software ODDM Primary server.
- 4. Configure Control-Audit Reports Viewer website application pool to use the user account you created. The following section will describe how to assign a user account to an application pool in IIS6 or IIS7.



To assign a User Account to an Application Pool in IIS 6, please perform the following steps:

- 1. Open the Internet Information Services (IIS) Manager console from Administrative Tools.
- 2. Right-click on the DFXReportViewer application pool and click **Properties**.



3. In the Identity tab select Configurable.



4. Enter the account details, then click **OK**.

File	AuditorReportView	ver Properties	? ×
R	ecycling Performan	ce Health Identity	
	Application pool ider Select a security ac	ntity	
	C Predefined	Network Service	
	⊙ <u>C</u> onfigurable		
	<u>U</u> ser name:	Galactic\FARepotsUser Browse	
	Pass <u>w</u> ord:	••••••	
_		OK Cancel Apply H	elp



5. Open the DFXReportViewer website properties.





6. In the Directory Security tab, under Authentication and access control, click Edit.

Reports\$SQLExpress Pro	perties	? ×				
HTTP Headers Virtual Directory	Custom Errors Documents	ASP.NET Directory Security				
Authentication and acce Enable and authentica	ess control onymous access and edit the tion methods for this resource.					
☐ IP address and domain Grant or d IP address	IP address and domain name restrictions Grant or deny access to this resource usin IP addresses or Internet domain names.					
Secure communications Require se enable clie resource is	cure communications and nt certificates when this accessed.	Server Certificate ⊻jew Certificate Edit				
OK Cancel Apply Help						



7. Disable all authentication methods except Integrated Windows Authentication.

Aut	hentication Me	thods				x
	Enable anony Use the following	mous acce Windows (	ssj user accoun	t for anonym	nous access:	
!	<u>U</u> ser name:	DOTNET	a		Browse	
1	Password:					
	Authenticated acc For the following are required when - anonym - access i Integrated W Digest authen Basic authent .NET Passport	tess authentica n: ious acces: s restricter indows aut itication fo ication (pa t authentic	tion method s is disabled d using VTF thentication r Windows of ssword is se ation	ls, user nam , or 5 access con domain serve ent in clear te	e and password trol lists rrs ext)	I
	Default <u>d</u> omain	:			Select	]
	<u>R</u> ealm:				Select	
	0	K	Cancel		Help	



To assign a User Account to an Application Pool in IIS 7, please perform the following steps:

- 1. Open IIS from the control panel and choose the DFXReportViewer application pool.
- 2. Right-click on it and click on Advanced Settings.





3. Change the default app pool created to the user you need.

(General)     .NET Framework Version     Enable 32-Bit Applications	
(General)     .NET Framework Version     Enable 32-Bit Applications	
.NET Framework Version Enable 32-Bit Applications	
Enable 32-Bit Applications	v2.0
	False
Managed Pipeline Mode	Classic
Name	FileAuditorReportViewer
Queue Length	1000
Start Automatically	True
I CPU	
Limit	0
Limit Action	NoAction
Limit Interval (minutes)	5
Processor Affinity Enabled	False -
Processor Affinity Mask	4294967295
Process Model	
Identity	ApplicationPoolIdentity
Identity Idle Time-out (minutes)	ApplicationPoolIdentity
Identity Idle Time-out (minutes) Load User Profile	ApplicationPoolIdentity
Identity Idle Time-out (minutes) Load User Profile Maximum Worker Processes	ApplicationPoolIdentity
Identity Idle Time-out (minutes) Load User Profile Maximum Worker Processes Ping Enabled	ApplicationPoolIdentity
Identity Idle Time-out (minutes) Load User Profile Maximum Worker Processes Ping Enabled Ping Maximum Response Time (second	ApplicationPoolIdentity
Identity Idle Time-out (minutes) Load User Profile Maximum Worker Processes Ping Enabled Ping Maximum Response Time (second Ping Period (seconds)	ApplicationPoolIdentity
Identity Idle Time-out (minutes) Load User Profile Maximum Worker Processes Ping Enabled Ping Maximum Response Time (second Ping Period (seconds) Shutdown Time Limit (seconds)	ApplicationPoolIdentity



lva	anced Settings	? ×
	(General)	
	NET Framework Version	v2.0
	Enable 32-Bit Applications	False
	Managed Pipeline Mode	Classic
	Name	FileAuditorReportViewer
	Queue Length	1000
	Start Automatically	True
-	СЫІ	
	l Applica Set Credentials	? × ? ×
	O BL User name:	
	Galactic\FARepotsUser	
	Password:	
—	1 • a	
	Conrirm password:	
	l  •••••••••	
	r	
	F C	Cancel
	Ping Period (seconds)	30
	Shutdown Time Limit (seconds)	90
	Startun Time Limit (seconds)	90
Ic [ic bu Lo	<b>lentity</b> dentityType, username, password] Co uilt-in account, i.e. Application Pool Ide ocal System, Local Service, or as a spe	onfigures the application pool to run as entity (recommended), Network Service, ecific user identity.
		OK Cancel



4. In IIS, choose the DFXReportViewer website and open the Authentication view.

File View Help					
Connections	ile /File	eAuditorR	eportView	er Home	
ST 🖂 📶 😽					
rt Page UAD-2008R2 (DOTNET\ahassan) Application Pools	Filter: ASP.NET		- 🔐 Go - 🥃	Show All Gr	oup by: Area
Sites  Default Web Site  Site  Site  Fap  Fap  Site  Site Site	.NET Authorizati	.NET Compilation	.NET Error Pages	.NET Globalization	.NET Profile
	Pages and Controls	Providers	Session State	SMTP E-mail	
	115				
ia⊡@ FileSecurityReporterReports ia⊡@ QFSSystemDashboard ia⊡@ QFSSystemDashboardWebServic	Authen Station	Authorization ure authenticati	Default	Handler sites and applica	HTTP
	Manageme	nt			
	Configuration Editor	IIS Manager Permissions			



5. Disable all authentication methods except Windows Authentication.





## **Adding Your First EVS**

There are two ways to add an EVS to the DefendX Software Control-Audit hierarchy. You can either add it through the DefendX Software Control-Audit Configuration Wizard or add the EVS manually. Both methods are explained in detail here.

To add your first EVS to the DefendX Software Control-Audit hierarchy through the DefendX Software Control-Audit Configuration Wizard, complete the following steps:

1. Click the **View Pre-Wizard Checklist** button and gather the required information before continuing. Click **Next**.

File Auditor For NAS Configuration Wizard	×
NTP. Setware®	
To complete the installation of your File Auditor for NAS product we will require information about your NAS device, Email Notification System, and identity mapping directory.	
Please make sure you know all of the answers of the below Configuration Checklist before continuing on this wizard.	
View Pre-Wizard Checklist	
Next > Finish Cancel	



2. Enter the CIFS name of the Virtual Server.

File Auditor For NAS Configuration \	Wizard		×
STP			
The File Auditor connector will need in resources.	nformation about your EVS t	o be able to manage its	
CIFS name of your EVS:	MyEVS		
	< <u>B</u> ack	Finish	Cancel

To add an EVS to the DefendX Software Control-Audit policy hierarchy manually, follow these steps:

1. Click Start > All Programs > DefendX Software Control-Audit for NAS > DefendX Software Control-Audit for NAS Admin.



2. In the hierarchy presented, expand the location name you entered earlier. The default location is **My Site**. Your EVS Server is listed in the right pane, below the server on which DefendX Software Control-Audit is installed.

E NTP Software Smart Policy	y Manager (TM)	)				
File Edit View Options Help	)					
🎒 👗 🖻 🖻 🗙 😭	<u><u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u></u>	Ĩ				
🖃 🜐 My Organization	Name 🗸	Туре	Status	Description	Created	Modified
🗄 🔠 File Auditor	RAZA	Server	Available		2/19/10 12:40:00	2/19/10 12:40:28
🖻 - 📛 My Site	📲 My EVS	Filer	Available		2/21/10 12:33:36	2/21/10 14:04:25
tie Auditor time RAZA time RAZA time RAZA	File Auditor	FileAuditor	Available		2/21/10 13:42:17	2/21/10 13:42:31
	<b>Ⅰ</b>					▶
3 object(s)				RAZA (Loca	Host)	

Right-click on the container node, then select **New > EVS** to add the EVS to the tree.

You need to add the EVS to the Hitachi Connector tab and restart the service.

The EVS server will be listed in the Control-Audit Admin left panel tree view.

This allows a company with multiple EVS and multiple Control-Audit Servers to control which Control-Audit Server will manage which EVS server.



3. In the left pane, expand the server on which DefendX Software Control-Audit is installed and right-click **Control-Audit**. From the pop-up menu, select **Properties**.





4. Click the Hitachi Connector tab. Your EVS should be listed; if it is not, click Add.

NTP Software File Auditor™Configuration
Security Hitachi Connector
Please enter the Hitachi EVS to be managed by the Hitachi Connector.
EVS
MyEVS .
<u>A</u> dd <u>R</u> emove
OK Cancel Apply Help

5. Enter the name of your EVS. Click **OK**.

Add or Edit an Item	×
Enter the name of the EVS to control:	
MyEVS	Bro <u>w</u> se
OK Cancel	



## **Verifying Registration with the EVS**

The following event log message is logged when DefendX Software Control-Audit successfully registers with an EVS:

Event Source: Control-Audit Hitachi Connector

Event ID: 81

Date: 5/15/2009

Time: PM 12:24:42

Computer: INSTANCE-DEV



#### About DefendX Software

DefendX Software helps organizations secure their critical business files and maximize the value of their enterprise file storage resources. From comprehensive intelligence, modeling, costing and chargeback to seamless file movement, protection and archiving, DefendX provides industry-leading capabilities to eliminate waste and align the value of files with the storage resources they consume. With DefendX, important file locations and the users who access them can be monitored to provide governance, protect against theft and enforce compliance policies. For more than 20 years, DefendX Software has been helping public and private sector customers around the world save money and eliminate risk every day.

#### DefendX Software Professional Services

DefendX Software's Professional Services offers consulting, training, and design services to help customers with their storage management challenges. We have helped hundreds of customers to implement cost-effective solutions for managing their storage environments. Our services range from a simple assessment to in-depth financial analyses.

For further assistance in creating the most cost-effective Storage Management Infrastructure, please contact your DefendX Software Representative at 800-390-6937.



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