

Trend Micro LeakProof 3.0

Evaluator's Guide

Revision History

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About This Document

The intent of this document is to give customers a guide for evaluating Trend Micro[™] LeakProof[™] 3.0 (LeakProof). It will give the evaluator scenarios that will highlight the key benefits of the product as well as its ease of use.

Introduction to Trend Micro LeakProof 3.0

Trend Micro LeakProof 3.0 is a comprehensive software solution designed to help organizations protect sensitive information from accidental disclosure and intentional theft. With LeakProof 3.0, you will be at peace knowing that all insider threats are blocked and/or logged.

LeakProof 3.0 provides four levels of content filtering capabilities:

- DataDNA match engine based on document fingerprinting
- Entity match engine based on regular expression
- Keyword match
- Meta data match

Evaluator's Guide Requirements

- A LeakProof 3.0 DNA Server
 - You have a choice:
 - DL100/DL500
 - VMware version
- A Windows client such as Windows XP Professional
- A test network



Assumptions

This document assumes that the LeakProof 3.0 server and client are installed prior to starting the evaluation. The high-level requirements are:

- 1. All network configurations should be set with the LeakProof 3.0 DNA server. The server could be the VMware version or an appliance (DL100 or DL500).
- 2. Agent software has been installed on at least one endpoint and has been configured to connect to the LeakProof DNA server.

Sample Data Set

Trend Micro Inc. has prepared sample documents to be fingerprinted for this evaluation. The documents include five different file formats (Microsoft Word, Adobe Acrobat, Microsoft Excel, Microsoft PowerPoint, and text) and 17 different languages including English, Chinese, Japanese, French, Russian, and Greek. These sample documents are stored in following directory of the LeakProof DNA server.

/home/dgate/EvalDataDNADocRep/EvalDataDNADocSource

We also provide another set of documents that will be used for testing leakage from the client. These documents are included with the agent package in a folder named "Leaked-Documents". These test samples include "sensitive documents" organized into the following categories:

- DataDNA match
 - o All fingerprinted documents
 - o One .rar file that contains some of the fingerprinted files
- Keyword match
 - files containing C/C++ and Java source code
 - $_{\odot}$ $\,$ One .rar file that contains several Java and C/C++ source files
- Entity match

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- 1 Excel file, 1 Word file, 1 PowerPoint file, 1 Rich Text (.rtf) file and 1 text file. All these files contain U.S. Social Security Number and credit card numbers information in them.
 - One .zip file—Contains 2 files: 1 zipped Word and 1 zipped Excel file

Table 1 identifies the test information included with Trend Micro LeakProof 3.0 and its location on the LeakProof 3.0 client:

Table 1 Location and Function of Pre-defined LeakProof 3.0 Client Test Doe	cuments
------------------------------------------------------------------------------------	---------

Location	Protection Method	Classification	Test Channel	Policy Rule Actions Taken During Transactions
C:\LeakedDocuments\	Fingerprint	Super Secret	All (email,	Block, Notification,
DataDNA-Match	DNA Match		USB)	Justification
C:\LeakedDocuments\	Entity Match/	Personal	All (email,	Encryption,
Entity-Match	Regex based	Information	USB)	Justification
C:\LeakedDocuments\	Keyword	Intellectual	All (email,	Block
Keyword-Match	Match	Property	USB)	
C:\LeakedDocuments\ Non-Sensitive-Doc	None	None	All (email, USB)	None

LeakProof 3.0 Scenarios List

The following table has the list of Scenarios we will use to evaluate the LeakProof 3.0. Each of these scenarios has a set of subsidiary scenarios.

Note:	After you complete the scenarios, use the procedures in Appendix D to restore the test
	environment to the condition it was in before you began testing.

Table 2	Trend Micro LeakProof 3.0 Scenario Summary
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Section	Description	Purpose
A: Protecting sensitive data:	These scenarios include violation tests such as sending sensitive information through email, copying sensitive files to a USB device, and other device control activities.	The purpose of these tests is to demonstrate how LeakProof 3.0 protects sensitive information. Note : The evaluator can do just these scenarios to understand the functionality and benefits of LeakProof 3.0. To see reporting capabilities, do the Reporting Scenarios. These scenarios should be enough to give overview of the product and its benefits.
B: Protecting Unstructured Sensitive Data Using Fingerprints	 These scenarios include configuration steps and tests such as: Adding your own sensitive documents Preparing documents for protection Adding documents to repositories Scheduling the acquisition of documents Validating the LeakProof 3.0 configuration 	The purpose of these tests is to show how easy it is to configure LeakProof 3.0 to protect sensitive information based on Fingerprinting.
C: Protecting Sensitive Structured Data Using Entities	 These scenarios include configuration steps and tests such as: Add New entity Definitions Validating the LeakProof 3.0 configuration 	The purpose of these tests is to show how easy it is to configure LeakProof 3.0 to protect sensitive information based on entities.
D: Protecting Sensitive Structured Data Using Category Definitions	 These scenarios include configuration steps and tests such as: Creating keyword lists Validating the LeakProof 3.0 configuration 	The purpose of these tests is to show how easy it is to configure LeakProof 3.0 to protect sensitive information based on keywords
E: Using LeakProof 3.0 Reporting	These scenarios include configuration steps and tests such as:Creating reportsScheduling reports	The purpose of these tests is to show how easy it is to configure LeakProof 3.0 to create and schedule reports.
F: Administering LeakProof 3.0	 These scenarios include configuration steps and tests such as: Viewing events Role-based access control Client management 	The purpose of these tests is to show how easy it is to configure LeakProof 3.0 to administer and manage users, systems, and clients.

Exploration

You are encouraged to explore the new features more fully.

LeakProof 3.0 Evaluation Scenarios

A: Protecting Sensitive Company Data Using LeakProof 3.0

Business Benefits	LeakProof 3.0 protects internal users from unintentional or intentional transmission of a company's sensitive data.
	 LeakProof 3.0 protects sensitive data from being transmitted out of your company's possession while the client is ON or OFF your network.
Scenario	These scenarios will show that LeakProof 3.0 prevents users from:
Goals	• Attaching sensitive data to a document; copying sensitive data to a new document; copying sensitive data into the body of an email and transmitting it. This protection is both while client is ON or OFF the company's network
	Copying sensitive data to external storage peripherals such as a USB storage device.
	We will also show that notifications will be sent to both client and administrator when there are policy violations:
	We will show the LeakProof 3.0 Agent behavior in the clients
	We will show the small size of the fingerprints

Note: There are two sets of sample documents shipped with the product. The sample document set for fingerprinting is located on the DNA server in the following directory:

/home/dgate/EvalDataDNADocRep/EvalDataDNADocSource

The sample document set to test data leaks from the client computer is located in the following directory on the test computer:

c:/LeakProof/Leaked-Documents

These tests can be conducted while the client is either ON or OFF-line.

Important Note:	1.	The customer will need to PUSH the Acquire radio button in the LeakProof 3.0 Administrative console before starting these test scenarios to fingerprint the required pre-defined documents.
	2.	For Scenarios A1 through A9, make sure you try to leak information from DataDNA-Match, Keyword Match and Entity-Match directories NOT Non-Sensitive-Doc directory.

Scenario A1 — Sending a sensitive document to an external email address using company email

- 1. Login to the client computer that has LeakProof 3.0 agent installed.
- 2. Compose an email.
- 3. Attach a sensitive document from c:/LeakProof/Leaked-Documents/ and try to send it.
 - a. LeakProof will take the following actions:
 - i. Issue a notification stating that this document contains company-sensitive information.
 - ii. If the "Block" and "Justification" rules in the policy are set, LeakProof 3.0 displays a Justification window that allows you to enter the reason you want to copy or move the sensitive document.

iii. Encrypt the document. This happens only if the sensitive document is being copied to removable media such as a USB device or CD/DVD.

Scenario A2 — Copying and pasting a sensitive document and sending it to an external email address using company email

- 1. Open a sensitive document in c: /LeakProof/Leaked-Documents/ and copy the contents.
- 2. Create a new document and paste the contents you just copied into it. Save the document and name it whatever you want.
- **3.** Compose an email.
- 4. Attach a copy of the document you just created and send it.
 - a. LeakProof will take the following actions:
 - i. Issue a notification stating that this document contains company-sensitive information.
 - ii. If the "Block" and "Justification" rules in the policy are set, LeakProof 3.0 displays a Justification window that allows you to enter the reason you want to copy or move the sensitive document.
 - iii. Encrypt the document. This happens only if the sensitive document is being copied to removable media such as a USB device or CD/DVD.

Scenario A3 — Sending part of a sensitive document to an external email address using company email

- 1. Open a sensitive document in c:/LeakProof/Leaked-Documents/.
- **2.** Copy part of the document's content.
- 3. Create a new document (name the document to whatever you want).
- 4. Compose an email.
- 5. Attach the document you just created to the email.
- 6. Send the email.
 - a. LeakProof will take the following actions:
 - i. Issue a notification stating that this document contains company-sensitive information.
 - ii. If the "Block" and "Justification" rules in the policy are set, LeakProof 3.0 displays a Justification window that allows you to enter the reason you want to copy or move the sensitive document.
 - iii. Encrypt the document. This happens only if the sensitive document is being copied to removable media such as a USB device or CD/DVD.

Scenario A4 — Copying the content of a sensitive document into an email and sending it to an external email account using a company email address

- 1. Open a sensitive data document in c:/LeakProof/Leaked-Documents/.
- 2. Copy the content.
- 3. Compose an email.
- 4. Paste the content into the email body
- 5. Send the email.
 - a. LeakProof will take the following actions:
 - i. Issue a notification stating that this document contains company-sensitive information.
 - ii. If the "Block" and "Justification" rules in the policy are set, LeakProof 3.0 displays a Justification window that allows you to enter the reason you want to copy or move the sensitive document.
 - iii. Encrypt the document. This happens only if the sensitive document is being copied to removable media such as a USB device or CD/DVD.

Scenario A5 — Sending a sensitive document to an external email address using Webmail

- 1. Login to the client computer that has LeakProof 3.0 agent installed.
- 2. Compose an email using a Webmail client.
- 3. Attach a sensitive document from c:/LeakProof/Leaked-Documents/ to the email.
- 4. Send the email.
 - a. LeakProof will take the following actions:
 - i. Issue a notification stating that this document contains company-sensitive information.
 - ii. If the "Block" and "Justification" rules in the policy are set, LeakProof 3.0 displays a Justification window that allows you to enter the reason you want to copy or move the sensitive document.
 - iii. Encrypt the document. This happens only if the sensitive document is being copied to removable media such as a USB device or CD/DVD.

Scenario A6 — Sending a sensitive document to an external email account using Webmail

- 1. Open a sensitive document in c:/LeakProof/Leaked-Documents/.
- 2. Copy the contents of the document.
- 3. Create a new document
- 4. Paste the contents into the new document.
- 5. Name the document whatever you want and save it.
- 6. Compose an email.
- 7. Attach the document you just created
- 8. Send the email.
 - a. LeakProof will take the following actions:
 - i. Issue a notification stating that this document contains company-sensitive information.
 - ii. If the "Block" and "Justification" rules in the policy are set, LeakProof 3.0 displays a Justification window that allows you to enter the reason you want to copy or move the sensitive document.
 - iii. Encrypt the document. This happens only if the sensitive document is being copied to removable media such as a USB device or CD/DVD.

Scenario A7 — Copying part of a sensitive document, pasting the content into a new document and sending the document to an external email account using Webmail

- 1. Open a sensitive document in c:/LeakProof/Leaked-Documents/
- **2.** Copy part of the content.
- 3. Create a new document.
- 4. Save the document (name it whatever you want).
- 5. Compose an email.
- 6. Attach the document you just created.
- 7. Send the email.
 - a. LeakProof will take the following actions:
 - i. Issue a notification stating that this document contains company-sensitive information.
 - ii. If the "Block" and "Justification" rules in the policy are set, LeakProof 3.0 displays a Justification window that allows you to enter the reason you want to copy or move the sensitive document.
 - iii. Encrypt the document. This happens only if the sensitive document is being copied to removable media such as a USB device or CD/DVD.

Scenario A8 — Copying part of a sensitive document, pasting it in an email and sending the mail to an external email account using a company email address

- 1. Open a sensitive document in c:/LeakProof/Leaked-Documents/.
- 2. Copy the content.
- 3. Compose an email.
- 4. Paste the content into the body of the email.
- 5. Send the email.
 - a. LeakProof will take the following actions:
 - i. Issue a notification stating that this document contains company-sensitive information.
 - ii. If the "Block" and "Justification" rules in the policy are set, LeakProof 3.0 displays a Justification window that allows you to enter the reason you want to copy or move the sensitive document.
 - iii. Encrypt the document. This happens only if the sensitive document is being copied to removable media such as a USB device or CD/DVD.

Scenario A9 — Copying a sensitive document to an external USB storage device

- 1. Login to the client computer that has LeakProof 3.0 agent installed.
- 2. Copy a sensitive data document from c:/LeakProof/Leaked-Documents/ and try to copy it to an external USB storage device.
- 3. Open a sensitive data document in c:/LeakProof/Leaked-Documents/ and copy the content and create a new document (name the document what ever you wanted). Then try to copy it to an external USB storage device.
- 4. Open a sensitive data document in c:/LeakProof/Leaked-Documents/ and copy part of the content and create a new document (name the document what ever you wanted). Then try to copy it to an external USB storage device.
- 5. Disconnect your Ethernet cable from your client and try to copy a sensitive document from c:/LeakProof/Leaked-Documents/ to a USB storage device.
 - a. LeakProof will take the following actions:
 - i. Issue a notification stating that this document contains company-sensitive information.
 - ii. If the "Block" and "Justification" rules in the policy are set, LeakProof 3.0 displays a Justification window that allows you to enter the reason you want to copy or move the sensitive document.
 - iii. Encrypt the document. This happens only if the sensitive document is being copied to removable media such as a USB device or CD/DVD.

Scenario A10 — Copying non-sensitive data document to an external USB storage device

- 1. Login to the client computer that has LeakProof 3.0 agent installed.
- 2. Copy a known non-sensitive data document from c:/LeakProof/Leaked-Documents/ Non-Sensitive-Doc and try to copy it to an external USB storage device.
- Disconnect your Ethernet cable from your client and try to copy a sensitive document from c:/LeakProof/Leaked-Documents/Non-Sensitive-Doc to an external USB storage device.
- 4. Notice nothing happens if the information is NOT sensitive.

Scenario A11 — Viewing a clients' notifications during violations

- 1. Login to the client computer that has LeakProof 3.0 agent installed
- 2. Copy a sensitive data document and try to copy it to an external USB storage device.
- **3.** Look for a popup educational window. This window will give the details of what the company policy is for copying a sensitive data, etc.
- **4.** If the justification policy is set, and the user is doing this action for a business reason, the LeakProof client will give the user an option to justify and then continue with the action. However, the action is logged and a notification sent to the administrator.

Scenario A12 — Viewing the LeakProof 3.0 server's notifications during violations

- 1. Click the **Security Violations** tab of the menu bar on top of the administrative console.
- 2. Click the General tab.

Trend Micro LeakProof 3.0 Administrative Console

2		- LeakProof	TM CONTRACTOR										
ome	e Ser	nsitive Info Secu	rity Policy Se	curity Scan	Securit	y Violation	Repo	rting Administra	tion Management			User ID: admin Help	Loge
ve	ent (refresh)									01-01-2004 12:00:00) 🗐 to <mark>Now</mark>	
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Ŧ	27	LIWEI-PC\Liwei Ren		LIWEI-PC		FileWrite		Yes	F:\h_uni-67pc.txt		12-03-2007 11:23:43 PS	т 🗖	1
Ŧ	26	LIWEI-PC\Liwei Ren		LIWEI-PC		FileWrite		No	F:\small-keywords.txt		12 02 2007 11:05:25 05		
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3. Click the expansion icon on the left side of each violation record to see the details of each violation event. Administrator will be able to see detail information such as what the violation was, what time it happened, if it happened ON or OFF the network, etc.

Figure 1 Expanded Event Page

-	Jensitive	Accounty Policy	Secondy Scall at		Reporting	Hamilistr	Hanage				Outer Hot admin	
91	mt (refres	h)								01-01-2004 12:00	1:00 IIII To Now	
rai	a By User	By Endpoint By Act	ivity Map View									
m	eral Info :	Users 1	Endpoints 1									
e)	Write	28 Email	0 V	eb Mail 0	IM		0					
P		0 HTTP	0 H	TTPS 0	PGP E	ncryption	0					
				Theme 1-11	1 of 28	et Read 1 2	2 Diext Li setti co	to once It	regime list to 10	items per page	Download forensic	data
	ID	User	Endpoint	Activity	÷ 0	offline	Destination	to page 11	÷	Date	\$	
	28	LIWEI-PC/Liwei Ren	LIWEI-PC	FileWrite	N	0	F:\small-keyw	ords.txt		12-03-2007 11:24:	15 PST	
							Matching detail	for item 1				Next
	Description	Attempt to save sensitive i	nto into file on a unsecu	ared device.			Able Calmenter	Combont				
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							Matching Score	50				
	Matching Lev	el Low					Matching Level	Low				
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	aystem Action	is Eugging (Porensic Data Ca	proving				SV Control Rule	Default				
	Justification						Classifications	Intellectual Pro	perty			
	Sensitive Info	ormation										
	Item Path	Content Type Content		# of Matches								
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				-							10.007	_
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	24	LIWEL-PCN intel Rep	LIWEI-PC	FileWrite	N	-	EUSSN phone	e. fulldate 1. txt		12-03-2007 10:52	20 PST	
	23	LIWEI-PC/Liwei Ben	LIWEI-PC	FileWrite	N	-	E:\SSN_phone	e fulldate 1.txt		12-03-2007 10:50:	37 PST	
	22	LIWEI-PC/Liwei Ren	LIWEI-PC	FileWrite	N	0	E:\SSN phone	e fulldate1.txt		12-03-2007 10:49:	45 PST	
	21	LIWEI-PC Liwei Ren	LIWEI-PC	FileWrite	N	0	F:\SSN_phone	e_fulldate.txt		12-03-2007 10:44:	00 PST	
	20	LIWEI-PC Liwei Ren	LIWEI-PC	FileWrite	N	0	F:\SSN_phone	e_fulldate.txt		12-03-2007 10:36:	00 PST	-
	10	LTWET-PCV Issel Rep	L TANET-RC	ElleMrite	N	0	E-ISSN phone	a fulldate tyt		12-03-2007 10:34	38 PST	

Scenario A13 - Verifying that LeakProof 3.0 client files are hidden from users

- 1. Login to the client computer that has LeakProof 3.0 agent installed.
- 2. Check for the process in Windows Task Manager. You should not see any LeakProof 3.0 processes as the client process is hidden.
- **3.** Search the registry to see if you can find any entries for the LeakProof client. You will not be able to see any because the registry entries are hidden.
- 4. Check to see if you can view the violation logs. These files are also hidden.
- 5. Login to the LeakProof administrative console.
- 6. Click the **Management** tab in the menu bar at the top of the administrative console.
- **7.** Use the arrow keys to look for the name of the client. The name of the client appears indicating that it is protected.

Scenario A14 — Viewing the size of LeakProof 3.0 Fingerprints

- 1. Login into the appliance with user "dgate"
- 2. cd to the directory /home/dgate/prod/common/data/index.
- **3.** The user should find some sub-directories with names in format "RepoN" where "N" is a number. For example, "Repo2", "Repo3", etc.
- **4. cd** to the directory with the largest number, For example, if you see directories named "Repo4" and "Repo5", cd to "Repo5".
- 5. Type **du** and you will see the fingerprint size in KBytes.

Scenario A15 — Enable/Disable Devices

- 1. Go to Security Policy \rightarrow Device Control Rules.
- 2. Click Add Rule.
- **3.** Create a rule similar to that in the example below, which disables the DVD, CD, and removable disk drivers on "PC-Liwei".

Figure 2 Edit Device Control Rule Page

ome Sensitive Info Sec	urity Policy Security Scan Security Viol	ations Reporting	Administration Management	
ecurity Policy Rules Summary Content Rules Content Exceptions	Edit Device Control Rule	(*: Required field)		
Security Scan Rules				aint Group
Boundary Rules		*Endpoint	LINELDC (10.19.0.150-1 Select Dom:	ain/Endooint
Approval		Authorization Type Enforcement	Device Type	Authorized
			DVD/CD-ROM drives	
			IEEE 1394 Bus host controllers	
			Modems	
			Ports (COM & LPT)	
			Imaging devices	
			PCMCIA adapters	
			Floppy disk controllers	
			Infrared devices	
			Removable disk drives	
			Print Screen Key	

4. Click Save after you complete editing the rule.

B: Protecting Unstructured Sensitive Data Using Fingerprints

Business	 LeakProof 3.0 protects unstructured sensitive company data using the DataDNA[™] match
Benefits	engine. This match engine uses document fingerprinting to identify documents.
Scenario Goals	 In these scenarios, we will show how to configure and set policies in Trend Micro LeakProof 3.0 to protect unstructured sensitive documents using scanning and fingerprinting techniques. These scenarios include procedures that enable users to: Classify information Define sensitive documents, including creating a Document source repository Document acquisition job definition Create Policies Perform functionality tests

Note: Before you start your scenarios:

1. Create a directory in the DNA server under:

/Home/dgate/Directory name

2. Make sure that you have added the data you wanted to protect to the DNA Server in the directory you just created:

/home/dgate/Directory name

Also, make sure you have some of these sensitive documents copied in the client system with LeakProof agent installed so you can use them for testing.

Scenario B1 — Adding Sensitive Information Classifications

- 1. Open a Web Browser from a computer that is in the same network as the DNA server.
- 2. Login to DNA server Web interface by typing "http://<DNA server IP address:8080/dsc>"

LoginID = admin

Password = yourpassword

- 3. Go to Sensitive Info \rightarrow Info Classification.
- 4. Click Add.
- **5.** Enter the Name and Description of the classification you would like to add. The classification will be added.

Figure 3 Sensitive Information Classification Page

DITEND. LeakProof	×						
Home Sensitive Info Sec	urity Policy Security Scan Security Violations	Rep	orting Administration Management			User ID: admin	Help Logout
Sensitive Document Source Repositories	Sensitive Information Classification						
Sources Register/De-register				resize list to 10 if	ems per page	Add	Delete
Matching Level Rule	Name	~	Description	\$	Related Regulations	\$	
Entity-based Sensitive Info	_Default_		Default classification				
Entity Definitions	Super-Secret		Most Important Document Of Tr				
Template Definitions	Personal Information		Personal information		HIPAA, GLBA		
Matching Level Rule	Personal Financial Information		Personal Financial Information		GLBA		
Keyword-based Sensitive Info	Intellectual Property		Source Codes, Design Documents				
Category Definitions	Credit Card Information		Credit card information		GLBA		
Matching Level Rule	Company Financial Docs		Company financial documents		SOX		
Info Classification							

Scenario B2 — Entering sensitive document definitions

- 1. Click Add above the repository list to take you to the Add Repository Definition page which allows you to add a new repository definition. For a repository definition, a name and repository type are always required.
- 2. Define repository type. If the repository is part of a local file system or a mounted file system on the LeakProof server, the Repository Type should be set to **File system / Local or NFS**.

Figure 4 Add Repository Definition Page

TREND LeakProof	2	
Home Sensitive Info Sec	urity Policy Security Scan	Security Violations Reporting Administration Manage
Sensitive Document Source Repositories Sources	Add Repository Definitio	on (*: Required field)
Register/De-register Matching Level Rule	*Name	Repository A
Entity-based Sensitive Info	Description	A local repository
Entity Definitions Template Definitions	Repository Type	File system / Local or NFS
Matching Level Rule	Host	
Keyword-based Sensitive Info Category Definitions	Root Path	/home/dgate/EvalDataDNADocRep
Matching Level Rule	Principal	
Info Classification	Credential	
	Confirm Credential	
	Connection Test	Repository connection testing successfull!
		Save Back

Scenario B3 — Adding sensitive documents source definitions

- Go to Sensitive Info → Sources → Add to add a new source definition and you will get to "Edit Document Source Definition page".
- **2.** Enter a Name and a Repository Name. For sensitive document source definitions, the Name and Repository Name fields are required.
- 3. Enter the Path (relative to the root of the repository directory selected).
- 4. By default, all subdirectories will be included recursively. Deselecting the Recursively checkbox excludes all subdirectories (this is strongly recommended, but optional). Enter the data for the Filter feature: Select only those files with names that satisfy the Include and Exclude criteria. Exclude those directories with names that match the patterns specified in the Exclude field.
- 5. Specify last modified dates to satisfy the Date Restriction criterion.

Filter Example:	On	ly files satisfying the following criteria will be selected:
Example.	•	Include criteria — To include the file name matches for *.doc, *.pdf, *.xls, *.txt, *.ppt, *.vsd.
	•	Exclude criteria — To exclude folder names with "English" and "binary"

- Date Restriction criterion mm/dd/yyyy to mm/dd/yyyy
- 6. (Optional) Select the sensitivity level.
- 7. Specify one or more classifications for the source definition with the Control key.
- 8. While adding or editing a source definition, press **Connection Test** to see whether the source is accessible.
- 9. Click Save to save the new source definition.
- 10. Select the source you have created and acquire it by clicking the Acquire button.

Figure 5 Edit Document Source Definition Page

Home Sensitive Info Sec	urity Policy Securi	ity Scan	Security Viola	tions Rep	orting	Administration	Mana	gement	
Sensitive Document Source Repositories	Edit Docum	nent :	Source Def	inition	(*:	Required field)			
Register/De-register Matching Level Rule	* _{Nan}	ne	Sensitive Docu	iments in for	eign I	anguages			
intity-based Sensitive Info	Descriptio	on	Highly confide	ntial docume	nts in	foreign languages			
Entity Definitions Template Definitions	Repository Name		SuperSecret Repository 2					Recursively	
Matching Level Rule	*Path Filter	th	ToolRep						
Keyword-based Sensitive Info Category Definitions		er	Include	*.pdf, *.xls	s, *.do	oc, *.txt, *.vsd, *.ppt			
Matching Level Rule			Exclude English, binary						
Info Classification			Date	Fr Fr	rom	05-01-2007			
			Restriction		То	12-01-2007			
	Sensitivity Lev	vel	Low 💌						
	*Classification	on	Personal Fina Personal Infor Credit Card Inf Super-Secret	ncial Informa mation formation	ition 🖌				
	Connection T	est							

Scenario B4 — Create a Security Policy

See Appendix A on how to create a policy.

Scenario B5 — Validate your Configuration

Perform the tests in Scenarios A1 through A15 to validate your configuration.

C: Protecting Sensitive Structured Data Using Entities

Business Benefits	 LeakProof 3.0 can protect structured sensitive company data using the Entity Match engine. Entities are based on regular expressions.
Scenario Goals	 These scenarios will show how to configure and set policies in Trend Micro LeakProof 3.0 to protect structured sensitive data based on regular expressions. The scenarios include procedures for:
	 Defining entities
	 Creating Policies
	 Performing functionality tests

Important Before you start your scenarios: Note: Make sure you have some of the te

Make sure you have some of the test sensitive documents copied to the client system. The test documents are installed with LeakProof agent and are contained in the C:/LeakProof/Leaked-Documents/ directory.

Scenario C1 — Using the Entity Definitions page to add or edit new entities

- 1. Go to Sensitive Info \rightarrow Entity-based Sensitive Info \rightarrow Entity Definitions. Click Add.
- 2. Type data in the following fields:
 - **Name** Any name is allowed.
 - **Type** Select either a Generic type or one of the three Optimized types. It is strongly recommended that you select appropriate optimized type if possible.
 - **Pattern** Follow the guidelines that we described when writing the pattern in regular expression. You can use the test area to validate the pattern.
 - Validation LeakProof provides validation methods for most of the 16 predefined entities. There is no general validation method for all entities. The validation method has to be built individually for each entity. When adding a new entity other than the 16 predefined ones, select the "No Validation" option.
- 3. Click Save.

Figure 6 Entity Definition Page

EakProof	T 114	
Home Sensitive Info Se	curity Policy Security Sc	an Security Violations Reporting Administration Management
Sensitive Document Source Repositories Sources	Edit Entity Definition	(*: Required field)
Register/De-register Matching Level Rule	*Name	SSN
Entity-based Sensitive Info	Description	Social Security Number
Entity Definitions Template Definitions Matching Level Rule Keyword-based Sensitive Info Category Definitions Matching Level Rule	*Туре	Entity with small alphabet/char set Alphabet/Char Set 0123456789 - Minimum Length 9 Maximum Length 11
Info Classification	*Pattern	[^\d-](\d{9} \d{3}-\d{2}-\d{4})[^\d-]
	Pattern for Display	nnnnnnn OR nnn-nn-nnnn
	Examples	123456789, 123-45-6789
	*Validation	Social Security Number Validation
	🗈 Test Area	Save Back

Scenario C2 — Creating a Security Policy

See Appendix A on how to create a Security Policy.

Scenario C3 — Creating a Matching Level Rule

See Appendix B on how to create a Matching Level Rule.

Scenario C4 — Validating your LeakProof 3.0 Configuration

Perform the functionality tests in Scenario 1.

D: Protecting Sensitive Structured Data Using Category Definitions

Business Benefits	LeakProof 3.0 protects structured sensitive company data using the Entity Match engine and category definitions.
Scenario Goals	These scenarios show how to configure and set policies in Trend Micro LeakProof 3.0 to protect structured sensitive data using keywords. They include procedures for:
	 Defining categories
	 Assiging category names
	 Entering category descriptions
	 Assiging a sensitivity level
	 Classifying categories
	 Entering keywords

Important Note: Before you start your scenarios: Make sure you have some of the test sensitive documents copied to the client system. The test documents are installed with LeakProof agent and are contained in the C:/LeakProof/Leaked-Documents/ directory.

Scenario D1 — Adding a Category Definition

- 1. Click Sensitive Info \rightarrow Keyword-based Sensitive Info \rightarrow Category Definitions.
- 2. Click Add to bring up the Add Category Definition page.

Note: Each category definition has a Name, Description, Sensitivity Level, one or more Classifications, and a set of keywords.

- **3.** Enter a name for the category.
- 4. Enter each keyword you wish to associate with the category.
- 5. Select the case sensitivity you wish to associate with the category.
- 6. Select the weight level you wish to assign to the category.

Figure 7 Add Category Definition Page

	curity Policy Security S	can Security Violati	ons Reporting	Administration	Management	
Sensitive Document Source Repositories Sources	Add Category Defini	tion (*: Required fi	eld)			
Register/De-register Matching Level Rule	* _{Name}	Keyword List for Dat	taDNA document	s		
Entity-based Sensitive Info	Description	Keywords for DataD	NA Documents			
Entity Definitions Template Definitions Matching Level Rule	*Sensitivity Level *Classification	Low Personal Financial	Information 🔺			
Keyword-based Sensitive Info Category Definitions	-	Personal Information Credit Card Information Super-Secret	n tion			
Matching Level Rule		Intellectual Property	/ 💌			
Info Classification	*Keywords		resize list to	10 items per page	Add D	elete
		Name 🔻	Case Sensitive ≑	Weight Level (weight) 🗘	Description \$	
		keyword match engine	No	High(3)		
		keyword match engine Signature Generation	No	High(3) Medium(2)		
		keyword match engine Signature Generation Entity Validation	No No	High(3) Medium(2) High(3)	A keyword	
		keyword match engine Signature Generation Entity Validation Entity Match	No No No	High(3) Medium(2) High(3) High(3)	A keyword	

Scenario D2 — Creating a Security Policy

See Appendix A on how to create a policy.

Scenario D3 — Creating a Matching Level Rule

See Appendix B on how to create a Matching Level Rule.

Scenario D4 — Validating your LeakProof 3.0 Configuration

Do the tests in Scenarios A1 through A15 to validate your LeakProof 3.0 configuration.

E: Using LeakProof 3.0 Reporting

Business Benefits	•	LeakProof 3.0 comes with four predefined reports. You can customize these reports or schedule the time the reports are generated and have them sent to a specific email address.
	•	LeakProof 3.0 includes a drilldown capability that enables users to look at reports based on client, classification, etc.
Scenario	•	These scenarios show how to:
Goals		Create reports Schedule reports
Guais		 Schedule reports

Scenario E1 — Adding a New Report

- 1. Go to **Reporting** \rightarrow **Report Definition**.
- 2. Click the Add New Report button for adding a new report. The following four default report definitions are provided
 - Executive summary
 - Top Users
 - o Last month activity details
 - Top endpoints
- 3. From the left panel, select the report type you would like to define to create a report.
- 4. On the right side, type a report name and definition.
- 5. Click the radio button for the report format you want:
 - **PDF**
 - HTML
 - o Excel
- 6. Enter the other necessary parameters for the report:
 - **Report title** Title to appear in the report.
 - \circ Last Select the interval for the report from the drop-down list
 - **Max # of records** Enter the number of maximum number of records between 1 and 1,000 that the report can contain. Any number larger than 1,000 will be treated the same as 1,000.
- 7. Click Preview Report to preview the report you have created.
- 8. Click Save.

Figure 8 Report Definition Page

Home Sensitive Info Security Policy Secur	ity Scan Security Violations	Teganiting Administration Management User ID: admin Help Logo
Report Definition		
Select Report Type	Executive summan	u Ouser stain Crastian Data
Executive summary	Executive Summary	ovirie, admini cleador bale.
Activity details custom		
All Users: Most active by date range	Name:	
All Users: Most active to date		
All Users: Activity Details by date range	Description	
All Users: Activity Details to date	Description:	
Single User: Activity Details by date		24
range		CPDF
Single User: Activity Details to date	Formati	(in the second s
Single User: Activity by date range	romat.	9 HIML
Single User: Activity to date		CEXCEL
All Endpoints: Most active by date range		
All Endpoints: Most active to date	Parameters	
Single Endpoint Activity Details by date	Faranceers.	
range Ginele Endesigt Articity Details to date	Report title:	
Single Endpoint: Activity Details to date		
Single Endpoint: Activity by date range		
Single Endpoint: Activity to date	I [™] Schedule	
Activity control policy details by endpoint		Save Preview Report Close Report
regulation		
Single Endpoint Security Risk by date		
range		
Single Endpoint: Security Risk to date		
Sensitive information definition		
summary		
Sensitive information definition by regulation details		
Compliance risk assessment summary		
Compliance risk assessment detail by endpoint		
Compliance risk assessment by regulation		

Scenario E2 — Alternate Definition

Another way to run a report is to schedule it using the **Administration** \rightarrow **Scheduled** \rightarrow **Job** feature. This feature is useful when you need to schedule reports to run on a regular basis or at a later time.

F: Administering LeakProof 3.0

Business Benefits	Trend Micro LeakProof 3.0 administrators can manage all clients and the LeakProof server through a centralized, Web-based interface.
	• Administrators can give users role-based access control, monitor system events, manage data, etc.
Scenario Goals	 These scenarios show how to: Monitor the server Manage endpoints Assign a management role to a user

Scenario F1 — Monitoring Server Status

The following shows the Server Status page. This page allows an administrator to monitor the status of the LeakProof 3.0 server.

Figure 9 Server Status Page

EakPine LeakPi	roof™										
Home Sensitive Info	Security	y Policy	Security Scan	Security Violations	Reporting	g Admir	nistration	lanagem	ent		User ID:
Server Status		Serve	r Status								
Endpoints Endpoint Management Auto Discovery/Import		Name	IP	▲	Status ≑	Type ≑	Version	÷	From	\$	Connected EPs ≑
Group Management	nt	dgs15 DSC_Manag	10.18.0.20, 1 ger 10.18.0.20:80	0.28.255.254:8804,8904	Started Started	Controller Manager	DSC-R3_0-0712 DSC-REL20-M1	203-114955 -07192006	12-05-2007 16:09:13 12-06-2007 07:33:40	9 PST	11 N/A
Role Management User Management											
Job Scheduling Scheduled Job Job Runs											
License		و هيو ۽ خور و						an an an an			مي م م م م م م م م

Scenario F2 — Managing Endpoints

The LeakProof 3.0 Endpoint Management functionality allows administrators to browse or edit the endpoints in the network.

Figure 10 Endpoint Management Page

ZARENO- LeakProof			
Home Sensitive Info Securi	ty Policy Security Scan Security Violations Reporting Administration Management	User ID: admin	Help Log
Server Status	Endpoint Management	Мар	View
Indpoints			
Endpoint Management	Filters		-
Auto Discovery/Import			
Group Management	Domain name All 💌 Agent status All 💌 Agent version All	•	
.eakProof User Management	Server name All Show status changed in All		
Role Management			
User Management		Query	
Job Scheduling			
Scheduled Job	Update agent Delete		
Job Runs	Status 🛋 Endpoint 🗘 IP Address 💠 MAC Address 💠 Agent Version 🗘 Last Modified Time 💠 Server 💠 Dr	Domain 💠 🛛 Update	Delete
	UNAST DC 10.19.0.150/1020 00/05/00/28/50/40.00/05/50/14/D2/92 DC4 071121 D 12.07 2007 22/55/54 DCT Jacobard Jacobardia	GATE	

A server can update the agent if the agent version on the endpoint does not match the server build.

Figure 11 Updating Agent Parameters

	Update agent Delete												
Status 🔺	Endpoint \$	IP Address 🛛 🗘	MAC Address	Updating Parameter	ers	d Time 🔶	Server 💠	Domain 🔶	Update	Delete			
8	TARANTULA	10.18.0.156:49934	00:19:D1:E8:C3:5D	1 8		16:09:18 PST	dgs15	WORKGROUP					
3	HONGYUAN	10.18.0.222:3269	00:13:20:63:80:75	Restart Agent		16:09:14 PST	dgs15	WORKGROUP					
3	RIC	10.18.0.181:1048	00:12:3F:C9:2A:B5,00:50:56:C	-		16:23:49 PST	dgs15	WORKGROUP					
3	AGENT-PC-VISTA	10.18.0.165:49666	00:19:D1:55:A3:1C	Stop time	5 min.	16:09:14 PST	dgs15	WORKGROUP					
8	QA-XP-CLIENT2	10.28.0.3:4444	00:40:CA:96:A6:4B	Silent Mode		16:09:14 PST	dgs15	MSHOME					
8	COMPAQ-HOME	10.28.0.117:1550	00:17:31:C0:A2:73,00:50:56:C			16:09:16 PST	dgs15	MSHOME					
8	FALCON	10.18.0.234:3786	00:11:11:D3:C6:CE,00:50:56:C	Update Cance		16:09:16 PST	dgs15	MSHOME					
8	ASHAHW2K5	10.18.0.213:2931	00:13:20:92:0B:92,00:50:56:CC			, 16:09:16 PST	dgs15	DGATE					
	OAVE-CLIENTA	10.29.0 2.8794	00-16-76-04-14-33-		SA-071204- P 12-05-200	7-16-00-41 DCT	doe 15	WORKCOOLD .					

Scenario F3 — Assigning a management role to a user

- 1. Go to Management \rightarrow LeakProof User Management \rightarrow Role Management.
- 2. Click Add Role to create a new role definition.
- **3.** Type a name for the new role in the Name field.
- 4. (Optional) Type a description of the role in the Description field.
- 5. Mark the appropriate Authorization checkbox(es) in the appropriate Permission (read, write or execute) column.
- 6. Click Save.

Figure 12 View (and Add) Role Definition Page

TREND LeakProof"					
Home Sensitive Info Securi	ty Policy Security Scan Security Violations	Reporting Administration	anagement		
Server Status	View Role Definition				
Endpoints Endpoint Management Auto Discovery/Import Group Management	*: Required field Definition				
LeakProof User Management	*Name:	administrator			
Role Management User Management	Description:	role with permissions to perfo	rm all operati	ons	
Job Scheduling	Permissions		_	Desmission	
Scheduled Job Job Runs		Resource Name	read	write	execute
Liener		Security Violation	~		
License		Security Scan	V		
		Security Policy	~	V	
	*Authorization:	Sensitive Information	✓		
		Agent Status	~		
		System Management	~		
		User/Role	~	~	
		Report	V		
		lob			

Appendix A: Creating a Security Policy

LeakProof is shipped with a default **Approved** security policy. An Approved policy cannot be changed.

How to create or change the current security policy

1. Click the Security Policy tab on the menu bar on the top of the GUI console.

Figure 13 Security Policies Page

	TREND LeakProof"										
tome Sensitive Info Stockniky The Rey Security Scan Security Violations Reporting Administration Management User ID: admin Help Logout											
Security Po	Security Policies										
Create New Policy Delete Drafts											
		Description (Amount Du		Time American		Last Markford Tons			
Policy #	Status 🔺	Description	T	Approved by	~	Time Approved	~	Last Mourieu Time	Delet		
Policy # DG_SP_00003	Approved	To create more content control rules	Ŧ	admin	-	12-03-2007 09:03:16 PST	Ŧ	12-03-2007 09:03:16 PST	Delet		
Policy # DG_SP_00003 DG_SP_00004	Approved Draft	To create more content control rules		admin	Ŧ	12-03-2007 09:03:16 PST	Ŧ	12-03-2007 09:03:16 PST 12-03-2007 11:42:42 PST	Delet		
Policy # DG_SP_00003 DG_SP_00004 DG_SP_00002	Status Approved Draft Obsolete	Add more stuffs as policy	Ŧ	admin admin		12-03-2007 09:03:16 PST	Ŧ	12-03-2007 09:03:16 PST 12-03-2007 11:42:42 PST 12-03-2007 09:03:16 PST	Delet		

- 2. Select an existing Approved or Obsolete policy as a template to create a new draft policy.
- 3. Click Create New Policy.
- 4. Select a policy name from the drop-down list of the Create New Policy dialog box.
- 5. Click **Create**. A new policy appears with "Draft" in the status column.
- 6. Click the **Policy #** field of the new draft policy.
- 7. Click Content Rules. The Content Rules page appears.

Figure 14 Content Rules Page

MICRO LEARFI	1001								
Home Sensitive Info	Security Policy Security Scan S	ecurity Violations	Reporting) Administ	ration Management			User ID: admin	
Security Policy Rules	Content Rules								
Content Rules Content Exceptions Device Control Rules	resize list to 10 items per page	Add Rule	Delete F	Rule					
Security Scan Rules	Name	Target	Type	Activities	Online Actions to Take	Offline Actions to Take	Active	Apply For Scan	Delete
Approval	Default	All	All	All	Logging	Logging	1	\checkmark	
	SuperSecret Rule	All	All	All	Logging;Client Side	Logging;Client Side	1	×	
	SuperSecret Rule 2	All	All	All	Logging;Client Side	Logging;Client Side	1	1	
		LIWEI-PC	Endpoint	All	Logging;Client Side	Logging;Client Side	1	×	
	IP control Rule							~	
	IP control Rule Personal Info Control Rule	LIWEI-PC	Endpoint	All	Logging;Client Side	Logging;Client Side	V	X	
	IP control Rule Personal Info Control Rule IP control Rule 2	LIWEI-PC	Endpoint Endpoint	All	Logging;Client Side Logging;Forensic Dat	Logging;Client Side Logging;Forensic Dat	 ✓ 	× ✓	

- 8. Go to Security Policy → Content Rules and click Add Rule.
- 9. In the "Rules Status" section, type in a name.
 - Check the rule as Active.
 - Check the rule as Apply for Scan, which means this rule is applied to a data-at-rest scan.
- **10.** In the "Target "section, select **All Endpoints**.
- **11.** In the "Activities" section, select **All Activities**. That means all leakage channels will be inspected by LeakProof 3.0.
- **12.** In the "Sensitive Information Attributes" section, select the **Content Based** radio button. This allows you to apply three matching capabilities.
 - a. Select the sensitivity level as High or above.
 - b. Select the matching level as Medium or above.
 - c. Select the information classification Super-Secret, which was defined previously.
- **13.** In the "Actions to Take" section, select the actions **Logging**, **Client Side Alert**, and **Blocking and Justification** for both online and offline use.
- 14. Click Save to save the new content rule.

Figure 15 Add Violation Control Rule Page

e sensitive into acc	rthy Suffacy Security Scan Security Violations Reporting Administration Management User ID: admin Help Lo
rity Policy Rules mary ient Rules ient Exceptions	Add Violation Control Rule (*: Required field)
ce Control Rules inity Scan Rules indary Rules	Rules Status "Name Meta Data Match Rule I Active Apply For Scan
roval	*Target Activities Activities Activities Activities Activities
	III Email IV FileWrite IV FTP IV HTTP
	I HTTPS I IM I PGP Encryption I Web Mail
	C Content Based File Extension: *.pdf, *.doc File State: From 10M Document Type: Unknown Obfuscated Archive PGP Encrypted
	*Actions to Take Online Actions Offline Actions
	Image: Comparison of
	Forensic Data Capturing C Encrypting Justification Save Cancel

Appendix B: Creating a Matching Level Rule

When LeakProof matches a document and its content against a well-defined template, it calculates a matching score based on the matching scoring rules in the template. LeakProof determines the matching level based on the matching score and the matching rules. The administrator can set Matching Level Rules for both Entity-based sensitive Information and Keyword-based sensitive information.

Figure 16 Matching Level Rule Page

TREND LeakProof™					
Home Sensitive Info Secu	rity Policy Security Scan Secur	ity Violations Reporting	Administration	Management	
Sensitive Document Source Repositories Sources Register/De-register Matching Level Rule	Matching Level Rule	(*: Required field)			
Entity-based Sensitive Info Entity Definitions	Entity-bas	ed Sensitive Info			
Template Definitions		Matching Level		*Minimum Matching Score	
		Low	50		-
Keyword-based Sensitive Info Category Definitions		Medium	100		-
Matching Level Rule		High	150		-
Info Classification					
				Save	

Creating an Entity-based Matching Level Rule

When LeakProof matches a document and its content against a well-defined template, it calculates a matching score based on the scoring rules in the template. LeakProof determines the matching level based on the matching score and matching rules.

- 1. Click Sensitive Info \rightarrow Entity-based Sensitive Info \rightarrow Matching Level Rule.
- 2. Set the matching rule by defining the matching levels as High, Medium, or Low.
- 3. Set the score ranges by either typing in the numbers or moving the scroll bars.

Creating a Keyword-based Matching Level Rule

When LeakProof matches a document and its content against a keyword category, it calculates a matching score by summing up the scores of all keyword occurrences according to an assigned keyword weight. LeakProof then determines the matching level based on the matching score and the matching rules.

To access the Matching Level Rule Page:

- 1. Click Sensitive Info \rightarrow Keyword-based Sensitive Info \rightarrow Matching Level Rule.
- 2. Set the matching rule by defining the matching levels as Low, Medium, and High.
- 3. Set the score ranges by either typing in the numbers or moving the scroll bars.

Appendix C: Adding Sensitive Information You Want to Protect

Important Note:	Before you start using LeakProof 3.0 to block and log, you must define sensitive data because LeakProof 3.0 works by:
	 Acquiring and fingerprinting the sensitive documents you wanted to protect. By scanning the sensitive documents using the DNA server, you will make sure that these sensitive documents are protected from leaking out of your company regardless if the client is ON or OFF your network. The DNA Server will scan these documents and create fingerprint which can be pushed to the clients along with the policies you have created. Thus, the client will be blocked and or logged when trying to copy to a USB device, email, etc.
	 Defining regular expression based entities: By building a well-defined regex-based entity templates, these templates along with the policies you have created can be pushed to the clients. LeakProof 3.0 will protect documents that contain part or whole of these defined templates.
	 Defining keyword lists. By building well-defined keyword lists, LeakProof 3.0 will protect documents that contain part or all of the specified keywords.
Note:	For this evaluation, pre-defined document acquisition tasks and policies have been prepared

Figure 17 LeakProof 3.0 Sensitive Document Source Definition Page

and shipped with the product. .

TREND. LeakProof									
Home Sensitive Info Sec	curity Policy Security	Scan Security Viola	tions Reporting A	dministration Mana	gement			User ID: admin	Help Logout
Sensitive Document Source Repositories	Sensitive Do	cument Source	e Definitions						
Sources Register/De-register							(Add Acquire	Delete
Matching Level Kule	Name 🌲	Repository Name	Location \$	Sensitivity Level	Classification 🗘	Last Acquisition Time	🗘 Status	# of Docs Acquired	\$ 🔲
Entity Definitions	SuperSecret Doc	SuperSecret Rep	localhost://EvalData	High	Super-Secret		New	0	
Template Definitions Matching Level Rule	Sensitive Docum	SuperSecret Rep	10.18.0.169://Public	Low	Super-Secret		New	0	

How to add sensitive documents to DNA server and client

For this evaluation, you will put the sensitive information on the DNA server.

- 1. Copy the documents using SCP to the server.
- 2. Start WinSCP and start a session with the following information:
 - Host IP or name
 - user name of the DNA server (dgate)
 - o password
- **3.** Start WinSCP and start a session with the following information:
 - Transfer the files you wanted to protect to /home/dgate/Directory name you have created
 - Copy some of these sensitive documents to the local drive of the client with LeakProof agent installed for testing purposes. Put the sensitive documents in the following directory:

C:\LeakedDocuments\

Appendix D: How to Clean up the LeakProof 3.0 DNA Server After the Scenarios are Complete

You can clean up the system after you are done with the scenarios as follows:

- 1. Create a policy based on the approved policy and remove all rules except the default rule.
- 2. Go to Sensitive Info and delete the following settings:
 - Sensitive Documents:
 - Source repositories
 - Source
 - Entity-based Sensitive Information:
 - Template definition
 - Keyword-based Sensitive Information:
 - Category definitions

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Trend Micro Incorporated is a pioneer in secure content and threat management. Founded in 1988, Trend Micro provides individuals and organizations of all sizes with award-winning security software, hardware, and services. With headquarters in Tokyo and operations in more than 30 countries, Trend Micro solutions are sold through corporate and value-added resellers and service providers worldwide. For additional information and evaluation copies of Trend Micro products and services, visit our Web site at www.trendmicro.com.