

# RIS Perez Tool Protection Tool

## User Manual Foxit® RMS PDF Protection Tool



Gold Independent Software Vendor (ISV)

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## **User Manual**

Foxit RMS PDF Protection Tool provides a command-line interface that can decrypt multiple AD RMS protected PDF files or encrypt multiple PDF files by a predefined official rights-policy template. This tool can be used to safeguard existing sensitive data on company shares. It also works in conjunction with the File Classification Infrastructure (FCI) feature in Windows Server 2008/2012 to classify and protect sensitive company data.

#### **Pre-installation Information**

To run this tool, you must have the latest version of the AD RMS client installed. If you have an existing older version of the AD RMS client installed, you will need to uninstall the old version first and then download and install the latest version of the AD RMS client from below:

For X86:

http://us-request.foxitservice.com/products/redirect.php?title=ad rms sdk x86&language=en us

For X64:

http://us-request.foxitservice.com/products/redirect.php?title=ad rms sdk x64&language=en us

As for using Windows Azure AD Right Management (AAD RMS), please refer to the <u>Quick Start</u> for Using Windows Azure AD Right Management.

#### System requirements

**Supported operating systems**: Windows 7, Windows 8 Release Preview, Windows Server 2008, and Windows Server 2008 R2, Windows Vista, Windows Server 2012

The following list identifies client and server platforms that can install Active Directory Rights Management Services SDK 2.0: • Windows Server 2008 R2 • Windows 7 • Windows Server 2008 with Service Pack 2 (SP2) • Windows Vista with Service Pack 2 (SP2) • Windows Server 2012

#### **RMS Command Line Tool Commands**

The following syntax, parameter description, and example sections describe the Foxit RMS Command Line Tool commands.

Format	Meaning
Monospace	Elements that the user must type exactly as shown.
Between angle brackets < >	Placeholders for values that the user must supply.
Between square brackets []	Optional items.

#### Syntax

RMSProtector	[/decrypt <location>]</location>
	[/encrypt <location>  [issuer]&gt; [/highstrength]]</location>
	[/showtemplates [/sync]] [/preserveattributes]
	[/log <log_file> [/append] [/simple]] [/silent]</log_file>

#### Parameters

Parameter	Description
/decrypt <location></location>	Performs a batch decryption. This will decrypt all of the PDF files that reside in the location that is specified with this parameter.
/encrypt <location>  [issuer] &gt; [/highstrength]</location>	Performs a batch encryption. This will encrypt all of the PDF files that reside in the location based on the rights policy template that is specified along with this parameter. The <i><issuer></issuer></i> argument lets you specify an issuer of rights policy template. The <i>/highstrength</i> is an updated and enhanced AD RMS cryptographic implementation.
/showtemplates [/sync]	The <b>/showtemplates</b> parameter can show the available templates. The <b>/sync</b> parameter will download the rights policy template from the server synchronously.
/preserveattributes	This parameter preserves all the original file attributes. These attributes includes the following: Owner, Creation Time, Modified Time, and Accessed Time. For example, when this parameter is used with the File Classification Infrastructure in Windows Server 2008 R2, there can be a rule in place to delete all files that were not modified or accessed in the last 10 years. This option preserves all these original attributes.
/log <i><log_file></log_file></i> [/append] [/simple]	Performs an output to a log file. The log file contains a header that will show the status during the prerequisite stage and a footer that will shows the summary of the run. The log file will also show the file count information. The <b>/simple</b> flag allows the header, footer, and file numbering information to be left out of the log file. This is useful when the tool is used together with File Classification Infrastructure, because it will let you append the log file without the header, footer, and file

	numbering information. The <b>/append</b> flag will add the new information to a pre-existing log file. By default, if the <b>/simple</b> or <b>/append</b> flag is not specified when
	you are using a pre-existing log file, the log file will be overwritten.
/silent	This parameter disables console logging.

#### **Examples**

The following shows an example of decrypting files on a network share:

RMSProtector.exe /decrypt \\Share\Folder /log RMSProtector.log

The following shows an example of encrypting local files:

RMSProtector.exe /encrypt C:\Documents\Folder /template TemplateName /log C:\Logs\RMSProtector.log

The following shows an example of encrypting an individual file on a network share.

RMSProtector.exe /encrypt \\Share\file.pdf /template TemplateName IssuerName /preserveattributes /log C:\Logs\RMSProtector.log /append /simple

#### Using the RMS Protection Tool in Conjunction with the Windows

#### Server File Classification Infrastructure

The following steps will guide you through setting up the RMS Command Line Tool and FCI.

- 1. Unzip installation package to the specified directory.
  - a. Log on to the FCI Server as Administrator.
  - b. Unzip command line tool to: C:\Windows\SysWOW64
  - c. If you have purchased the product, please place the key file in this directory.
- 2. Grant FCI Machine Account Read and Execute Permissions.
- a. Log on to the AD RMS Server as an Administrator.
- b. Navigate to **C:\Inetpub\wwwroot\\_wmcs\Certification**, right-click on **ServerCertification.asmx** and select **Properties**.
- c. On the **ServerCertification.asmx** properties, select the **Security** tab, and then click **Edit**.
- d. On the **Permissions for ServerCertification.asmx** screen, click **Add**.
- e. On the **Select Users, Computers, or Groups** screen, to the right, click the **Object Types...** button.
- f. On the **Object Types** screen, place a check in **Computers** and click **Ok**.
- g. On the Select Users, Computers, or Groups screen, under Enter the object names to select, type <domain>\<machinename> and then click Check Names. This should validate the machine with an underline. Click Ok.

- h. On the **Permissions for ServerCertification.asmx** screen, select the newly added *machinename* and verify it has a check in **Read & execute**. Click **Apply** and then **OK**.
- i. On the ServerCertification.asmx properties, click Ok.
- 3. Grant AD RMS Service Group Read and Execute Permissions
- a. On the Select Users, Computers, or Groups screen, under Enter the object names to select, enter ADRMS\AD RMS Service Group and click Check Names. This should resolve with an underline. Click Ok.
- b. On the **Permissions for ServerCertification.asmx** screen, select the newly added AD RMS Service Group and verify it has a check in **Read & execute**. Click **Apply** and then Click **Ok**.
- c. On the ServerCertification.asmx properties, click Ok.
- d. Restart the AD RMS server.
- 4. To create the Shared Folder
- a. Log on to FCI Server as Administrator
- b. Click Start, click Computer, and then double-click Local Disk (C:).
- c. Click File, point to New, and then select Folder.
- d. Type **SharedFolder** for the new folder's name, and then press ENTER.
- e. Right-click SharedFolder, click Share with, and then click Specific people.
- f. On the **File Sharing** window, in the box under **Type a name and then click Add, or click the arrow to find someone** select **Everyone**, then and click **Add**.

File	: Sharing		
)	<u>8</u> File Sharing		
	Choose people on your network to share <b>v</b>	vith	
	Type a name and then click Add, or click the	arrow to find someone.	
	I	Add	
	Everyone		-
	Find people	Level	
	👗 Administrator	Owner	
	1		
	I'm having trouble sharing		
		🛞 Share 📗	Ca

The Everyone group should now appear in the box below. Under **Permission Level**, select **Read/Write**.

- g. Click **Share**. The window should change and you should now see **Your folder is shared**.
- h. Click Done.
- 5. Restrict Files
- a. Log on to FCI server as Administrator
- b. Copy the script from Appendix 1 into notepad and save it as c:\windows\system32\FoxitProtect.ps1.
- c. Click Start, click Administrative Tools, and click File Server Resource Manager.
- d. In the File Server Resource Manager, on the left, right-click **File Management Tasks**, and select **Create File Management Task**. This will bring up the Create File Management Task window.
- e. Under Task name: enter Restrict files.
- f. Under Description, enter Apply Confidential rights policy.
- g. Under Scope, click Add and then browse to SharedFolder. Click OK when done.
- h. At the top, click the **Action** tab.
- i. Under **Type**, select **Custom** from the drop-down.
- j. Under **Executable**, select **Browse** and navigate to c:\windows\system32\WindowsPowerShell\v1.0\powershell.exe.
- k. Under Arguments, enter -File c:\windows\system32\FoxitProtect.ps1 [Source File Path].

	Notification   Report   Conditi		
уре:	Custom		
xecutable:	C:\Windows\System32\Wi	ndowsPowerShell\v	Browse
Command settir			
Arguments:	-File C:\Windows\System32	VFoxitProtect.ps1 [S	ource File Path
Specify the dired	ctory to run the command in:	Worki	ng directory
Select variable t	to insert:		
[Admin Email]	•	Insert Variable	
	ail addresses of the administrator	s who receive the e-	mail.
inserts the e-ma			
Inserts the e-ma			
Command secu	uity		
Command secu To maintain sec	urity curity of the server, use the mos lard the system if the process is		possible, This
Command secu To maintain sec	curity of the server, use the mos lard the system if the process is		possible. This
Command secu To maintain sec will help safegu	curity of the server, use the mos lard the system if the process is and as:		possible. This
Command secu To maintain sec will help safegu Run the comma C Local Servi Same level	curity of the server, use the mos lard the system if the process is and as:	compromised.	
Command secu To maintain sec will help safegu Run the comma C Local Servi Same level	curity of the server, use the mos lard the system if the process is and as: ice of access as Users account. A h with no credentials.	compromised.	
Command secu To maintain sec will help safegu Run the comma C Local Servi Same level null session C Network Se Same level	curity of the server, use the mos lard the system if the process is and as: ice of access as Users account. A h with no credentials.	compromised. ccesses network res	ources as a
Command secu To maintain sec will help safegu Run the comma C Local Servi Same level null session C Network Se Same level	curity of the server, use the mos lard the system if the process is and as: lof access as Users account. A n with no credentials. ervice of access as Users account. A tials of the machine account.	compromised. ccesses network res	ources as a

- I. Under Run the command as:, select Local System.
- m. At the top, click the **Condition** tab.
- n. Click Add. This will bring up the Property Condition window.
- On the Property Condition window, make sure Property: is set to Business Impact, set the Operator: to Equals, and for the Value: select Low from the drop-down. Click Ok.
- p. Click Add. This will bring up the Property Condition window.
- q. On the **Property Condition** window, make sure **Property:** is set to **dateEncrypted**, and select **not exist** for the condition. Click **OK**.
- r. At the top, click the **Notification** tab.
- s. Click Add. This will bring up the Add Notification window.
- t. Set the Number of days before the task is executed to send notification to 0.
- u. At the top, click the **Schedule** tab.
- v. On the Schedule tab, click **Create**. This will bring up the **Schedule** window.
- w. On the Schedule window, click New.
- x. Accept the defaults and click **OK**. This will close the Schedule window.
- y. Click **OK**. This will close the Create File Management Task window.

Note:

After the installation of PowerShell, the execution of scripts is disabled by default. You must enable your system to run the scripts. This can be done by using the following command: **Set-Executionpolicy Unrestricted**.

#### Appendix 1

The following Windows Powershell script is used to create the file management task to restrict files

# execute bulk tool

```
$encryptfile = '''' + $args[0] + ''''
$r = start-process -Wait -PassThru -FilePath C:\Windows\SysWOW64\RMSProtector.exe
                                                 "/template",
-ArgumentList
                  "/encrypt",
                                $encryptfile,
                                                                 "[TemplateName]",
                                                                                        "/log",
"C:\ShareFolder\RmsLog.log", "/append", "/preserveattributes"
if ($r.ExitCode –eq 0)
{
    $c = new-object -com Fsrm.FsrmClassificationManager
    $d = (get-date).toFileTimeUTC()
    $d = $d - ($d % 1000000)
    $c.SetFileProperty($args[0], "dateEncrypted", $d.ToString())
}
```

Note:

1. [TemplateName] in the script should be filled out with real information. If [TemplateName] includes spaces, for example, the template name is "security audit mechanism", the script should be written as "/template", "security audit mechanism".

2. To encrypt a document by custom templates, please create custom template first (for how to create a custom template, please refer to <u>Create Template</u>), and then copy "Foxit Software" folder under C:\Users\User name (the current user of the operation system)\AppData\Roaming to C:\Users\Default\AppData\Roaming.

## **Custom Template**

Foxit RMS PDF Protection Tool allows users to encrypt documents by custom templates. You can create custom templates by Configuration Tool, call "showtemplates" command to display the custom templates and then encrypt documents by the created template via "encrypt" command. Also, you can manage the custom templates with the Protection Tool. Please refer to the instructions below for details.

#### **Create Template**

To create a custom template, please see the following steps:

1. Run the file "Foxit Configuration Tool.exe" in the unzipped folder and choose Custom Template tab.

2. Click Create.

ustom Template Security Watermark		
A rights policy template defines the rules and	d conditions applied to content protected by using the ten	iplate.
Template List		
· · · · · · · · · · · · · · · · · · ·		
Template	Description	
new	new	
2	1	
1	1	
Create Zedit	Delete	

3. Click Add in the Template Identification dialog box.

Add Template Identification	Rights policy template: template's identification	s can support clients with n information for each lang	different languages. Configure this guage supported on your client comp	outers
Add User Rights	Template Identificati	on		
Specify Expiration Policy	Language	Name	Description	
Add Security Watermark				
		-		-
	Add	🔓 Edit 📑 Ri	emove	

4. Choose the language and edit template name and description. Click OK. The template name and description will be shown in the Template Identification list. You can type the name and description with different languages for the template you want to create via clicking Add.5. Click Next to turn to Add User Rights.

Add Template Identification	Specify which users and groups have rights to work with content protected using this template.
Add User Rights	Users and rights
Specify Expiration Policy Add Security Watermark	Add
	Pights for user:         Image: Full control         Image: View document         Image: Print with high resolution         Image: Print with h
	User can request additional permissions from:

6. Click **Add** button to simply add users you would like to assign the rights.

- Input e-mail addresses in the field under "The e-mail addresses of users or groups" option or click Browser button to select email addresses from Outlook.
- > Select Anyone to allow all the users to work with the encrypted PDF files.
- Click OK to finish adding.

	recity everyone in an organiz	ation, select "Anyone".	mplate. To
	The e-mail addresses of us	rs or groups	
			Browse
🗇 Anyone	Anyone		

7. Check PDF permissions for the above users. You can set the permissions for all of the users or set different permissions for different users.

8. User can request additional permissions from: if users want to apply for any permission, the application will launch the email client and list the email addresses you typed into the text in the Recipient's Address automatically. You can type a URL as well.

9. Click Next to set the expiration policy.

xpiration Policy	on Policy
1.Add Template Identification 2.Add User Rights 3.Specify Expiration Policy	Specify content and use license expiration conditions associated with this template. Continued access to content protected by this template requires that expired content be re-protected and use licenses be renewed. Use license renewal generally occurs without action by the use license holder.
4.Add Security Watermark	Content expiration  Never expires Expires on the following date:   8/20/2013 10:02   Expires after the following duration(days): 1
	Use license expiration Requires user to re-verify permissions with the server after the following duration(days): 0 0 0 0 0 0 0 0 0
	< Back Next > Cancel

#### Content expiration

Never expires: the PDF content can be viewed indefinitely.

Expires on the following date: the PDF content will expire on a given date.

Expires after the following duration (days): the PDF content will expire after the desired days selected.

Use license expiration

Requires user to re-verify permissions with the server after the following duration (days): users need to apply for a new license to open the encrypted PDFs several days (the number you type into) later.

10. Click Next to add security watermark. You can refer to <u>Add Security Dynamic Watermark to</u> the File Encrypted by RMS.

11. Click Finish to complete creating the template.

#### **Manage Custom Template**

You can edit and delete the custom templates you created by Foxit Configuration Tool.

To edit a template, please follow the steps below:

1. Run the file "Foxit Configuration Tool.exe" in the unzipped folder and choose Custom Template

tab.

2. Choose the template you want to edit and click Edit to open Edit Rights Policy Template.

Template Identification	Name	Description	
Chinese (Simplified, PRC)	1	1	
Add 📝 E	Edit 🔒 Remov	/e	

3. Edit the template as required. For the instructions on how to edit the template, please refer to <u>Create Template</u> for details.

To delete a template, select the template you want to delete, and click Delete and Yes.

om Template Security Watermark		
ights policy template defines the rules ar	d conditions applied to content protected by using the t	emplate.
emplate List		
sinplace List		
Template	Description	
new	new	
2	1	
1	1	
Create	Delete	



## Add Security Dynamic Watermark to Templates

Dynamic security watermarks automatically display viewer identity information on protected PDF files to protect against compromise from screen shots and cameras.

- 1. Unzip the installation package on RMS server.
- 2. Run the file "Foxit Configuration Tool.exe" in the unzipped folder and choose Security Watermark tab to open Security Watermark Management.
- 3. Create a required watermark.

ustom Template Security Watermark	Drawiew	
Select profile Watermark Template Highly Confidential Open time Current User new	Preview New Profile Add Edit Delete	
	Export	

- a. Add a Watermark
  - i. Click New Profile to create a profile and name it.

ii. Select a profile you created and click Add to add watermarks in the profile.

iii. Type the watermark's name.

iv. Type the watermark's content in the text box and set the font, size, color, underline, and alignment.

Note: you can only set text as watermark.

v. Choose the Dynamic Text. When any PDF reader opens the file, the watermark will show the current document information dynamically and you can use multiple texts at the same time.

Content ID: shows the content ID of the current document. Document Title: shows the current document title. Author: shows the author of the current document. Current User: shows the current user who is reading the document. Date: shows the current system date when opening the document. Day: shows the current system day when opening the document. Month: shows the current system month when opening the document. Year: shows the current system year when opening the document. Time: shows the current system time when opening the document. Hour: shows the current system hours when opening the document. Second: shows the current system seconds when opening the document.

vi. Set the appearance by choosing the rotation degree and the opacity. You also have the option to make the scale relative to target page.

vii. Set the vertical and horizontal distance between the target page and the watermark.

viii. Choose the page range to play the watermark. You can select the different page range options via clicking the right items in the subset list.

ix. Preview the watermark in the right pane.

x. Click OK to finish it.

ame: company information	
ource Preview	
Text:     Fremont CA       US     Image: Size:       Image: Text:     Image: Size:       Image: Size:     Image: Size:       Image: Text:     Image: Size:       Image: Size:     Image: Size: Size:       Image: Size:     Image: Size: Size:       Image: Size:     Image: Size: Siz	Foxit Corporation Headquarters 4280 Christy Street, Suite 201 Fremont CA US
ppearance Rotation: O-45° O Custom	
Opacity: 100% +	
osition	
Vertical Distance: 4.8	
Horizontal Distance: 2.5 🛕 Inches 🔹 from Center 💌	
age Range Options	
All Pages	
O Pages:	
Pages from:     1     A     to:     1     A     v	
Subset: All pages in range 👻	

b. Editing or Deleting Watermark

Editing a Watermark

- i. Open the Security Watermark Management and select a watermark you want to edit.
- ii. Click Edit to open the Create Security Watermark dialog box.
- iii. Begin editing the watermark, please refer to <u>"Adding Watermark"</u>.
- iv. Click **OK** to finish the operation.

Deleting a Watermark

Open the Security Watermark Management and select a watermark you want to delete. Click **Delete** to remove the selected watermark.

4. To add dynamic security watermarks to a custom template, select the dynamic security watermarks as needed while creating the custom template.

To add dynamic security watermarks to official template, please follow the steps below:

- 1) Export the Watermark
  - i. Open the Security Watermark Management and select a watermark you want to export.
  - ii. Click Export and choose a file type and location to save.
  - iii. The watermark will be exported as an encoded file (.txt format).
- 2) Open the file "Add Security Watermark.vbs" in the unzipped folder with Notepad.exe.
- 3) Find the text (templateName = "") and type in the name of the template which needs to be added to the exported watermark.
- 4) Fill in the following content according to the exported watermark: appDataName = "" appDataValue = ""
- 5) Run "Add Security Watermark.vbs" and the watermark will be added to the target template.

## Quick Start for Using Windows Azure AD Right Management

Enable Windows Azure AD Rights Management for your organization:

- Download the Windows Azure AD Rights Management administration module (WindowsAzureADRightsManagementAdministration.exe) for Windows PowerShell from <u>here</u>.
- In the local folder where you downloaded and saved the Rights Management installer file, double-click the file
   WindowsAzureADRightsManagementAdministration.exe to launch installation of the Rights Management administration module.
- Open Windows PowerShell.
- Type the following commands:
  - ✓ Import-Module AADRM
  - ✓ Connect-AadrmService -Verbose
- Enter your Office 365 credentials when prompted, for example "user@company.onmicrosoft.com".
- Type the following commands:
  - ✓ Enable-Aadrm
  - ✓ Disconnect-AadrmService

### **Contact Us**

Feel free to contact Foxit should you need any information or have any problems with our products. We are always here, ready to serve you better.

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