



# Content

|   |    |
|---|----|
| Prerequisites .....   | 3  |
| How to Use the SDK .....  | 3  |
| Running Your Application.....                                     | 4  |
| How to Build Your Application .....                               | 5  |
| Add Security Dynamic Watermark to the File Encrypted by RMS ..... | 14 |
| How to Debug Applications that Use RMS PDF Protection Tool .....  | 17 |
| How to Understand Common Error Conditions and Solutions .....     | 19 |
| Quick Start for Using Windows Azure AD Right Management .....     | 20 |

## Prerequisites

### Step 1: Install the AD RMS Services Client

To run this SDK, 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.foxit-service.com/products/redirect.php?title=ad\\_rms\\_sdk\\_x86&language=en-us](http://us-request.foxit-service.com/products/redirect.php?title=ad_rms_sdk_x86&language=en-us)

For X64:

[http://us-request.foxit-service.com/products/redirect.php?title=ad\\_rms\\_sdk\\_x64&language=en-us](http://us-request.foxit-service.com/products/redirect.php?title=ad_rms_sdk_x64&language=en-us)

As for using Windows Azure AD Right Management (AAD RM), please refer to the [Quick Start for Using Windows Azure AD Right Management](#).

### Step 2: Install and configure RMS Server

About how to install and configure an RMS Server, please see [AD RMS Step-by-Step Guide](#).

## How to Use the SDK

- i. Unzip the installation package to a directory, for example, D:\ Foxit RMS PDF Protection Tool(SDK).
- ii. Add the file frms.h under the directory "Foxit RMS PDF Protection Tool(SDK)\include" to your project, so that you can check each interface conveniently.
- iii. Add the file FPDFRMS.lib to the project, for example, add #pragma comment(lib,"D:\\ Foxit RMS PDF Protection Tool(SDK)\\library\\FPDFRMS.lib") to the file stdafx.cpp (pre-compiled file).
- iv. Include the header file frms.h in the file which needs to use SDK interfaces, for example, add include " D:\\ Foxit RMS PDF Protection Tool(SDK)\\library\\frms.h" to the file stdafx.h (pre-compiled file).
- v. Copy the file FPDFRMS.dll under "Foxit RMS PDF Protection Tool(SDK)\library" to the same directory where your application program locates.

## Running Your Application

In order to run your RMS application you need to generate a signed application manifest. This guide shows how to generate a manifest

### On your development machine:

1. Copy the following files to a single directory:

- "Foxit RMS PDF Protection Tool(SDK)\tools\Genmanifest.exe"
- "Foxit RMS PDF Protection Tool(SDK)\tools\ isvtier5appsSigningprivkey.dat"
- "Foxit RMS PDF Protection Tool(SDK)\tools\ isvtier5appsSigningpubkey.dat"
- "Foxit RMS PDF Protection Tool(SDK)\tools\ isvtier5appsSignsdk\_client.xml"
- "Foxit RMS PDF Protection Tool(SDK)\tools\< YourAppName >.bat"
- "Foxit RMS PDF Protection Tool(SDK)\tools\< YourAppName >.mcf"
- < YourAppName >.exe

Note: If it's the pre-production environment, please copy the files "isvtier5appsSigningprivkey.dat", "isvtier5appsSigningpubkey.dat" and "isvtier5appsSignsdk\_client.xml" under the directory of "FoxitPDF\_ADRMS\_SDK\_10\tools\pre-production".

2. In this same directory, use notepad.exe to open the file < YourAppName >.mcf. Modify the option **REQ HASH "YourAppName.exe"**, and fill in the name of your application program. The file should have the following contents:

```
AUTO-GUID

"isvtier5appsSigningprivkey.dat"

MODULELIST

REQ HASH "YourAppName.exe"

POLICYLIST
    INCLUSION
        PUBLICKEY "isvtier5appsSigningpubkey.dat"
    EXCLUSION
```

**NOTE:** Ensure that "YourAppName.exe" is consistent with the actual < YourAppName >.exe.

3. In this same directory, use notepad.exe to open the file < YourAppName >.bat. Modify the option YourAppName.exe.man, and fill in the name of your application program. The file should have the following contents:

```
cd %~dp0
genmanifest.exe -chain isvtier5appsignsdk_client.xml YourAppName.mcf
YourAppName.exe.man
```

**NOTE:** Ensure that the file YourAppName.mcf and the file “YourAppName” under YourAppName.exe.man are consistent with the actual ones.

4. You will get a file “YourAppName.exe.man” by double-clicking the file YourAppName.bat.

**Note:** If the program YourAppName.exe has been modified, you should regenerate the file <YourAppName >.exe.man.

5. Copy the following files to your RMS server:

- <YourAppName >.exe
- <YourAppName >.exe.man
- FPDFRMS.dll

6. Run your application. You can run the application from any directory, but your generated manifest (<YourAppName >.exe.man and FPDFRMS.dll) must be in the same directory as <YourAppName >.exe

## How to Build Your Application

1. Before you can call any functions, you need to first call FRMS\_UnlockLibrary function to unlock the library. If you are in free 30-day trial, don't pass any parameter to the function FRMS\_UnlockLibrary, for example, FRMSAPI FRMS\_HRESULT FRMS\_UnlockLibrary().

### Example:

```
// Use the Key information to unlock the library
FRMS_HRESULT hr =
FRMS_UnlockLibrary("XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX");
if (FRMS_HRESULT_OK != hr)
{
    DisplayFRMSError(hr);
    goto Exit;
}
```

2. Initialize the SDK with FRMS\_Initialize. Before the application exits, destroy the library to release resources.

### Example:

```
//Initialize the SDK with library
```

```

hr = FRMS_Initialize(FRMS_API_MODE_CLIENT);
if (FRMS_HRESULT_OK != hr)
{
    DisplayFRMSError(hr);
    goto Exit;
}

//Release all resources allocated by the SDK library
if(Null != hProtector)
{
    FRMSProtector_Release(hProtector);
}
.

```

**NOTE:** If failing to call the function, 1. ensure you have called the function FRMS\_UnlockLibrary successfully. 2. check whether the AD RMS environment has been set up correctly if the function FRMS\_UnlockLibrary is returned successfully.

3. Sets the source to be protected. It can be a folder containing PDF files or can be a PDF file path.

**Example:**

```

//Set the PDF file path
wchar_t wsSource[20] = L"C:\\test.pdf";
FRMS_HPROTECTOR hProtector = NULL;
Hr = FRMSProtector_Create(&hProtector);
if (NULL != hProtector)
{
    hr = FRMSProtector_SetSource(hProtector,wsSource);
    if(hr != FRMS_HRESULT_OK)
    {
        DisplayFRMSError(hr);
        goto Exit;
    }
}

```

4. Get all Issuers.

**Example:**

```

int nCount = 0;
// Gets the count of issuers
hr = FRMSProtector_GetIssuerCount(hProtector, this->GetSafeHwnd(), &nCount);
if(hr != FRMS_HRESULT_OK)
{
    DisplayFRMSError(hr);
}

```

```

        goto Exit;
    }
    for(int i=0; i<nCount; i++)
    {
        LPWSTR lpwslssuer = NULL;
        int nLen = 0;
        // Gets the length of the issuer name
        hr = FRMSProtector_GetIssuer(hProtector, i, this->GetSafeHwnd(), lpwslssuer, &nLen);
        if(hr != FRMS_HRESULT_OK)
        {
            DisplayFRMSError(hr);
            goto Exit;
        }
        lpwslssuer = new wchar_t[nLen];
        memset(lpwslssuer, 0, sizeof(wchar_t)*nLen);
        //Gets the issuer name by index
        hr = FRMSProtector_GetIssuer(hProtector, i, this->GetSafeHwnd(), lpwslssuer, &nLen);
        if(hr != FRMS_HRESULT_OK)
        {
            DisplayFRMSError(hr);
            delete [] lpwslssuer;
            goto Exit;
        }
    }
}

```

5. Get the number of Rights Policy Template.

**Example:**

```

int nTemplateCount = 0;
//Gets the count of RMS rights policy templates of the specified issuer.
hr = FRMSProtector_GetTemplateCount(hProtector, lpwslssuer, TRUE, this->GetSafeHwnd(),
&nTemplateCount);
if (hr != FRMS_HRESULT_OK)
{
    DisplayFRMSError(hr);
    delete [] lpwslssuer;
    goto Exit;
}

```

6. Get the names of all templates.

**Example:**

```

for(int j=0; j<nTemplateCount; j++)
{

```

```

LPWSTR lpwsName = NULL;
int nLen = 0;
// Gets the length of the template name
hr = FRMSProtector_GetTemplateName(hProtector, j, lpwsIssuer, this->GetSafeHwnd(),
lpwsName, &nLen);
if(hr != FRMS_HRESULT_OK)
{
    DisplayFRMSError(hr);
    delete [] lpwsIssuer;
    goto Exit;
}
lpwsName = new wchar_t[nLen];
memset(lpwsName, 0, sizeof(wchar_t)*nLen);
// Gets the name of RMS rights policy template by specified index.
hr = FRMSProtector_GetTemplateName(hProtector, j, lpwsIssuer, this->GetSafeHwnd(),
lpwsName, &nLen);
if(hr != FRMS_HRESULT_OK)
{
    DisplayFRMSError(hr);
    delete [] lpwsName;
    delete [] lpwsIssuer;
    goto Exit;
}
}
}

```

7. Set the template which is used to encrypt documents, and ensure this template can be retrieved on the AD RMS server.

**Example:**

```

LPCWSTR lpwsIssuerName = L"IssuerName";
LPCWSTR lpwsTemplateName = L"TemplateName";
//Sets the current RMS rights policy template name used to protect the source.
hr = FRMSProtector_SetTemplate(hProtector, lpwsIssuerName, lpwsTemplateName, NULL);
if (hr != FRMS_HRESULT_OK)
{
    DisplayFRMSError(hr);
    goto Exit;
}
}

```

8. Finally, you can do the actual encryption.

**Example:**

```

hr = FRMSProtector_Protect(hProtector, 0, NULL);
if (hr != FRMS_HRESULT_OK)

```



```

{
    DisplayFRMSError(hr);
    goto Exit;
}

```

9. Throughout this example application the DisplayFRMSError function is being used to handle errors.

**Example:**

```

void DisplayFRMSError(HRESULT hr)
{
    LPWSTR lpwsText = NULL;
    int nLen = 0;
    FRMS_HRESULT hrGet = FRMS_GetErrorMessage(hr, 1033, lpwsText, &nLen);
    if(hrGet == FRMS_HRESULT_OK)
    {
        lpwsText = new wchar_t[nLen];
        memset(lpwsText, 0, sizeof(wchar_t)*nLen);
        hrGet = FRMS_GetErrorMessage(hr, 1033, lpwsText, &nLen);
        wprintf(L"%s\r\n", lpwsText);
        delete [] lpwsText;
    }
}

```

10. How to create a watermark node

**Example:**

```

FRMS_HWATERMARKNODE hWatermarkNode = NULL;
FRMS_HRESULT hr = FRMSWatermarkNode_Create(&hWatermarkNode);
hr = FRMSWatermarkNode_SetName(hWatermarkNode, L"watermarkNode name");//Sets
node's name
hr = FRMSWatermarkNode_SetContent(hWatermarkNode, L"watermark content");//Sets
content of watermark node.
hr = FRMSWatermarkNode_SetContentUnderLine(hWatermarkNode, TRUE);
hr = FRMSWatermarkNode_SetContentAlignType(hWatermarkNode);
hr = FRMSWatermarkNode_SetContentFontName(hWatermarkNode);//Sets the default font
hr = FRMSWatermarkNode_SetContentFontSize(hWatermarkNode);//Sets the default font size
to 24.
hr = FRMSWatermarkNode_SetContentColor(hWatermarkNode);//Sets the default content color
to black.
hr = FRMSWatermarkNode_SetContentRotation(hWatermarkNode, 45)// Sets the content to 45°
counterclockwise.
hr = FRMSWatermarkNode_SetContentScale(hWatermarkNode, 0)// Set 0 to use default font
size
hr = FRMSWatermarkNode_SetContentVerticalPosition(hWatermarkNode, 0,

```

FRMS\_DISTANCE\_TYPE\_PERCENT, FRMS\_CONTENT\_V\_POSITION\_CENTER);//Sets the content's vertical position.

hr = FRMSWatermarkNode\_SetContentHorizontalPosition(hWatermarkNode, 0, FRMS\_DISTANCE\_TYPE\_PERCENT, FRMS\_CONTENT\_H\_POSITION\_CENTER);//Sets content's horizontal position.

hr = FRMSWatermarkNode\_SetImpactPage(hWatermarkNode, TRUE, 0, 0, FRMS\_IMPACT\_TYPE\_ALL\_PAGE);//Sets page(s) that the watermark will be applied to.

Once the properties of the watermark is set, it now can be used.

FRMSWatermarkNode\_Release(hWatermarkNode);//Releases the watermark node. User must release the node after they are done using it.

## 11. How to Create a watermark

### Example:

```
FRMS_HWATERMARK hWatermark = NULL;
FRMS_HRESULT hr = FRMSWatermark_Create(&hWatermark);
hr = FRMSWatermark_SetName(hWatermark, L"watermark name");
if (hr != FRMS_HRESULT_OK)
{
    DisplayFRMS_Error(hr);
    return;
}
```

```
hr = FRMSWatermark_AddNode(hWatermark, hWatermarkNode);
if (hr != FRMS_HRESULT_OK)
{
    DisplayFRMS_Error(hr);
    return;
}
hr = FRMSWatermark_Save(hWatermark, NULL);//Passing null for the file path field means to save it to the default path.
```

FRMSWatermark\_Release(hWatermark);// After using the watermark, call this function to release

## 12. Get watermark node from a watermark

### Example:

```
int nCount = 0;
FRMS_HRESULT hr = FRMSWatermark_GetNodeCount(hWatermark, &nCount);
for(int i = 0; i < nCount; i++)
{
```

```

FRMS_HWATERMARKNODE hWatermarkNode = NULL;
    Hr = FRMSWatermark_GetNodeI(hWatermark, i, &hWatermarkNode);
    ...
    FRMSWatermarkNode_Release(hWatermarkNode); // After using the watermark node, call
this function to release.
}

```

If the node's name is known users can use FRMSWatermark\_GetNodeII to get the node.

```

FRMS_HWATERMARKNODE hWatermarkNode = NULL;
FRMS_HRESULT hr = FRMSWatermark_GetNodeII (hWatermark, L" watermarkNode name", &
hWatermarkNode) ;
if (hr != FRMS_HRESULT_OK)
{
    DisplayFRMSError(hr);
return;
}
hr = FRMSWatermarkNode_SetContent(hWatermarkNode, L"new content");
hr = FRMSWatermarkNode_UpdateNode(hWatermarkNode); // Update the new changes to the
node.
hr = FRMSWatermark_Save(hWatermark, NULL); // Save the changes made to the node.
FRMSWatermarkNode_Release(hWatermarkNode); // After using the watermark node, call this
function to release

```

### 13. Check the watermark or effect of watermark node

**Example:**

```

FRMS_HWATERMARKRENDER hRender = NULL;
FRMS_HRESULT hr = FRMSWatermarkRender_Create(hWnd, &hRender); // This 'hWnd' is the
handle to a static text box, for displaying a watermark or watermark effect node.
hr = FRMSWatermarkRender_Rendering(hRender, hWatermark, hWatermarkNode);
HDC hDC = NULL;
FRMSWatermarkRender_GetDC(hRender, &hDC);
//Draws on the DC called showDC.
::BitBlt(showDC, 0, 0, nWidth, nHeight, hDC, 0, 0, SRCCOPY);
FRMSWatermarkRender_Release(hRender);

```

### 14. Create customized template, and add the watermark into the customized template.

**Example:**

```

FRMS_HCUSTEMPLATE hCusTemplate = NULL;
FRMS_HRESULT hr = FRMSCusTemplate_Create(&hCusTemplate);
if (hr != FRMS_HRESULT_OK)
{
    DisplayFRMSError(hr);
return;
}

```

```

}
hr = FRMSCusTemplate_SetIdentification(hCusTemplate, 0, 1033, L"template name", L"template
description");
hr = FRMSCusTemplate_SetUserAndRights(hCusTemplate, FRMS_USER_TYPE_EVERYONE,
FRMS_RIGHT_VIEW); //Sets read permission for all user.
hr = FRMSCusTemplate_SetRequestAdditionalPermission(hCusTemplate,
FRMS_DESTINATION_TYPE_URL, NULL); //
Pass NULL means user will request additional permission from document owner who encrypts
the document, and the destination is an owner's email.
hr = FRMSCusTemplate_SetContentExpiration(hCusTemplate, TRUE, 0); //Sets when the
content expires. Setting TRUE for bNeverExpires means it will never expire.
hr = FRMSCusTemplate_SetUseLicenseExpirationDays(hCusTemplate, -1); //Sets when the
license expires by days. This is the numbers of days which the viewer must varify their
credentials again.
hr = FRMSCusTemplate_SetWatermarkIII(hCusTemplate, hWatermark);
hr = FRMSCusTemplate_Save(hCusTemplate, NULL); //Saves template in the default path.
FRMSCusTemplate_Release(hCusTemplate);

```

#### 15. Load and edit template

##### **Example:**

```

int nCount = 0;
FRMS_HRESULT hr = FRMSCusTemplate_Load(NULL, &nCount); //Gets the number of templates
in the default path.
for(int i = 0; i < nCount; i++)
{
FRMS_HCUSTEMPLATE hCusTemplate = NULL;
hr = FRMSCusTemplate_Load(i, &hCusTemplate);
int nIdenCount = 0;
hr = FRMSCusTemplate_GetIdentificationCount(hCusTemplate, &nIdenCount);
for(int i = 0; i < nIdenCount; i++) //Gets each identification information.
{
    DWORD languageID = 0;
    LPWSTR lpwsName = NULL, LPWSTR lpwsDescription = NULL;
    hr = FRMSCusTemplate_GetIdentification(hCusTemplate, i, &languageID, &lpwsName,
&lpwsDescription);

FRMS_ReleaseBuffer(lpwsName); //Releases the buffer.
FRMS_ReleaseBuffer(lpwsDescription); //Releasethe buffer.
}
hr = FRMSCusTemplate_SetIdentification(hCusTemplate, 0, 1033, L"template name new",
L"template description new");
hr = FRMSCusTemplate_SetContentExpiration(hCusTemplate, FALSE, 1); //Sets the content
expiration day to 1 day.

```

```

hr = FRMSCusTemplate_Save(hCusTemplate, NULL);//Update the template's information.
FRMSCusTemplate_Release(hCusTemplate);
}

```

16. Set dynamic revocation before calling FRMSProtector\_Protect function.

Hr = FRMSProtector\_SetDynamicRevoked(hProtector, TRUE);//TRUE means enabling dynamic revocation.

```

if (hr != FRMS_HRESULT_OK)
{
    DisplayFRMSError(hr);
    return;
}

```

17. Set extended policies before calling FRMSCusTemplate\_Save function.

**Example:**

```

//Set which pages users are allowed to access
LPCWSTR pPages = L" 1-3,4,6-8";
Hr = FRMSCusTemplate_SetViewablePages(hCusTemplate, pPages);

```

```

//Restrict access by IP range
LPCWSTR pIPFrom = L"192.168.0.1";
LPCWSTR pIPTo = L"192.168.0.5";
Hr = FRMSCusTemplate_SetIPRestrict(hProtector, pIPFrom, pIPTo);

```

```

//Set the number of accesses to 10
Hr = FRMSCusTemplate_SetAccessCount(hCusTemplate, 10);

```

```

//Set the number of prints to 10
Hr = FRMSCusTemplate_SetPrintCount(hCusTemplate, 10)

```

Note: If you set the number of prints or the number of accesses, the encryption information of the document will be saved in the database of RMS server. To encrypt the document successfully, you need to configure the server. You can call FRMSProtector\_IfTemplateNeedWebService function to check whether you have set the option.

18. Show the encryption information for the encrypted document.

```

FRMS_HENCRYPTINFO hEncryptInfo = NULL;
FRMS_HRESULT hr = FRMSEncryptInfo_Create(&hEncryptInfo);

```

```

LPCWSTR pFilePath = L"C:\\test.pdf";
hr = FRMSEncryptInfo_SetSource(hEncryptInfo, pFilePath);
if (hr == FRMS_HRESULT_OK)
{

```

```


        LCID languageID = 0;
        LPWSTR pTemplateName = NULL;
        LPWSTR pTemplateDescription = NULL;

        int nUserCount = 0;
//Get encryption template information
        hr = FRMSEncryptInfo_GetIdentification(hEncryptInfo, &languageID, &pTemplateName, &
pTemplateDescription);
        if (hr == FRMS_HRESULT_OK)
        {
            hr = FRMSEncryptInfo_GetUserCount(hEncryptInfo, &nUserCount);
            for (int i = 0; i < nUserCount; i++)
            {
                LPWSTR pUser = NULL;
                DWORD dwRight = 0;
                hr = FRMSEncryptInfo_GetUser(hEncryptInfo, i, &pUser); //get user
                hr = FRMSEncryptInfo_GetRight(hEncryptInfo, pUser, &dwRight); //get user rights

                FRMS_ReleaseBuffer(pUser); //release memory
                pUser = NULL;
            }

            FRMS_ReleaseBuffer(pTemplateDescription);
            FRMS_ReleaseBuffer(pTemplateName);
        }
    }
}

```

Note: If you want to apply extended policy or dynamic revocation, you need to configure web service first. For detailed configuration steps, please refer to [Web Service Configuration](#). 

## Add Security Dynamic Watermark to the File Encrypted by RMS

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

If you want to add dynamic security watermarks to a custom template with SDK interface, please refer to [How to Build Your Application](#).

If you want to add dynamic security watermarks to an official template, please follow the steps below:

1. Log on to the RMS server.

- Download the Foxit Configuration Tool from:

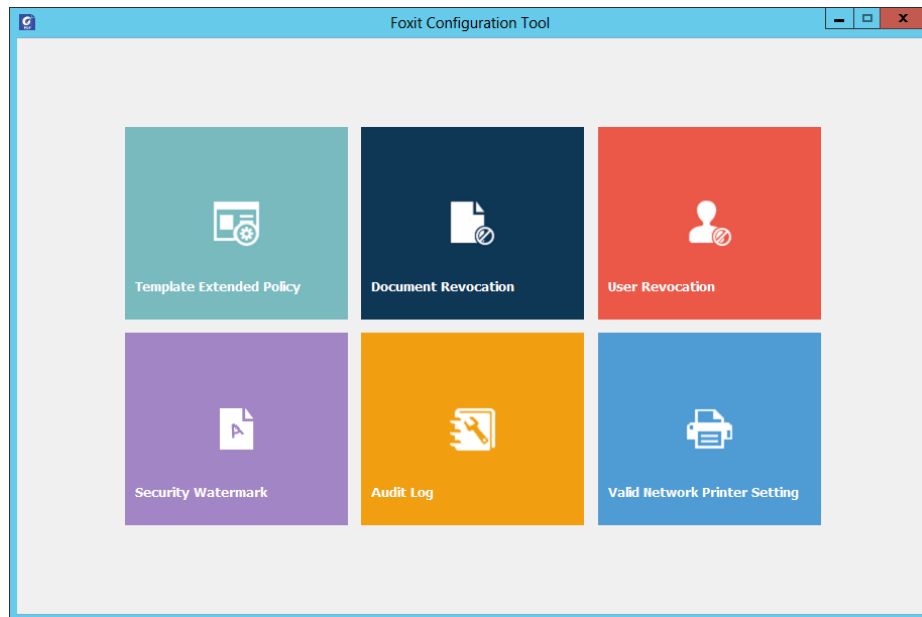
For X86:

[http://cdn01.foxitsoftware.com/pub/foxit/rms/configtool/FoxitConfigurationTool\\_32.zip](http://cdn01.foxitsoftware.com/pub/foxit/rms/configtool/FoxitConfigurationTool_32.zip)

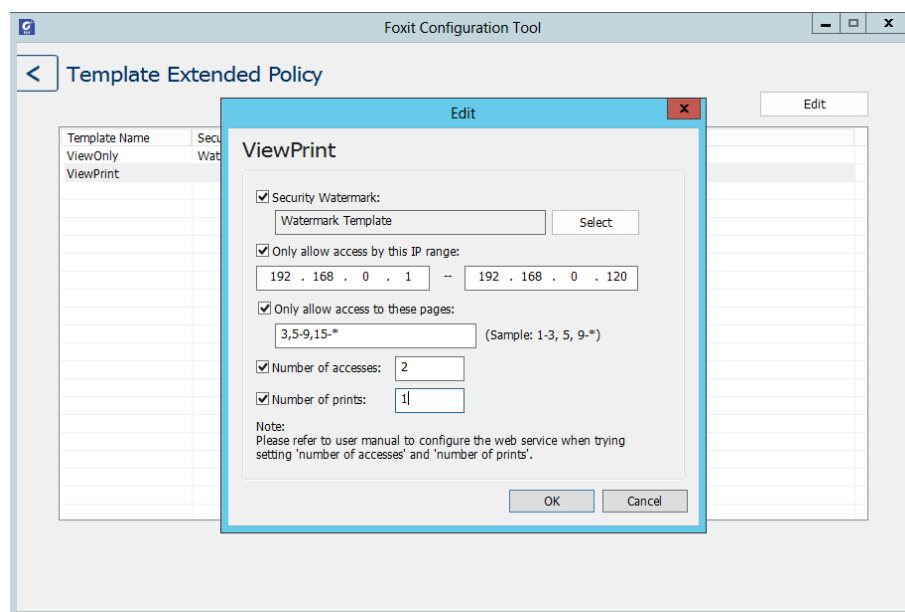
For X64:

[http://cdn01.foxitsoftware.com/pub/foxit/rms/configtool/FoxitConfigurationTool\\_64.zip](http://cdn01.foxitsoftware.com/pub/foxit/rms/configtool/FoxitConfigurationTool_64.zip)

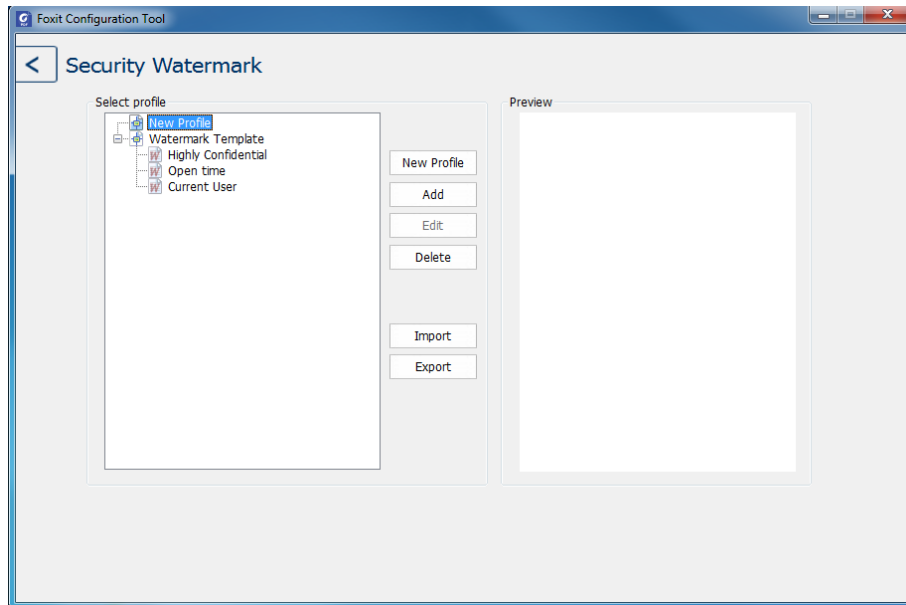
- Unzip and run the Foxit Configuration Tool.



- Click Template Extended Policy. Select a template to edit.



- Click Select.
- Add a required 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.

**Minute:** shows the current system minutes 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.

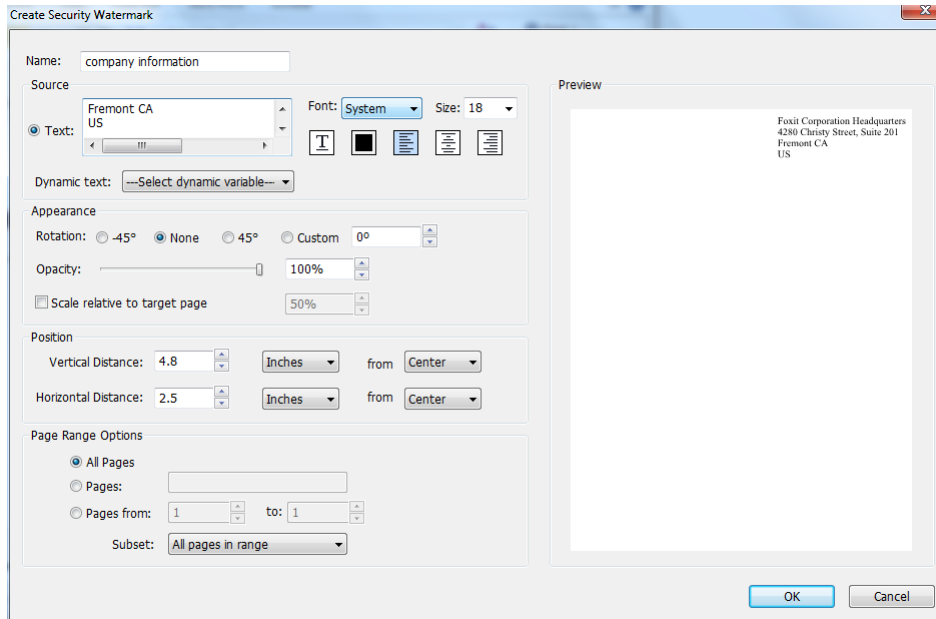
- vii. Set the vertical and horizontal distance between the target page and the watermark.

- 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.





## How to Debug Applications that Use RMS PDF Protection Tool

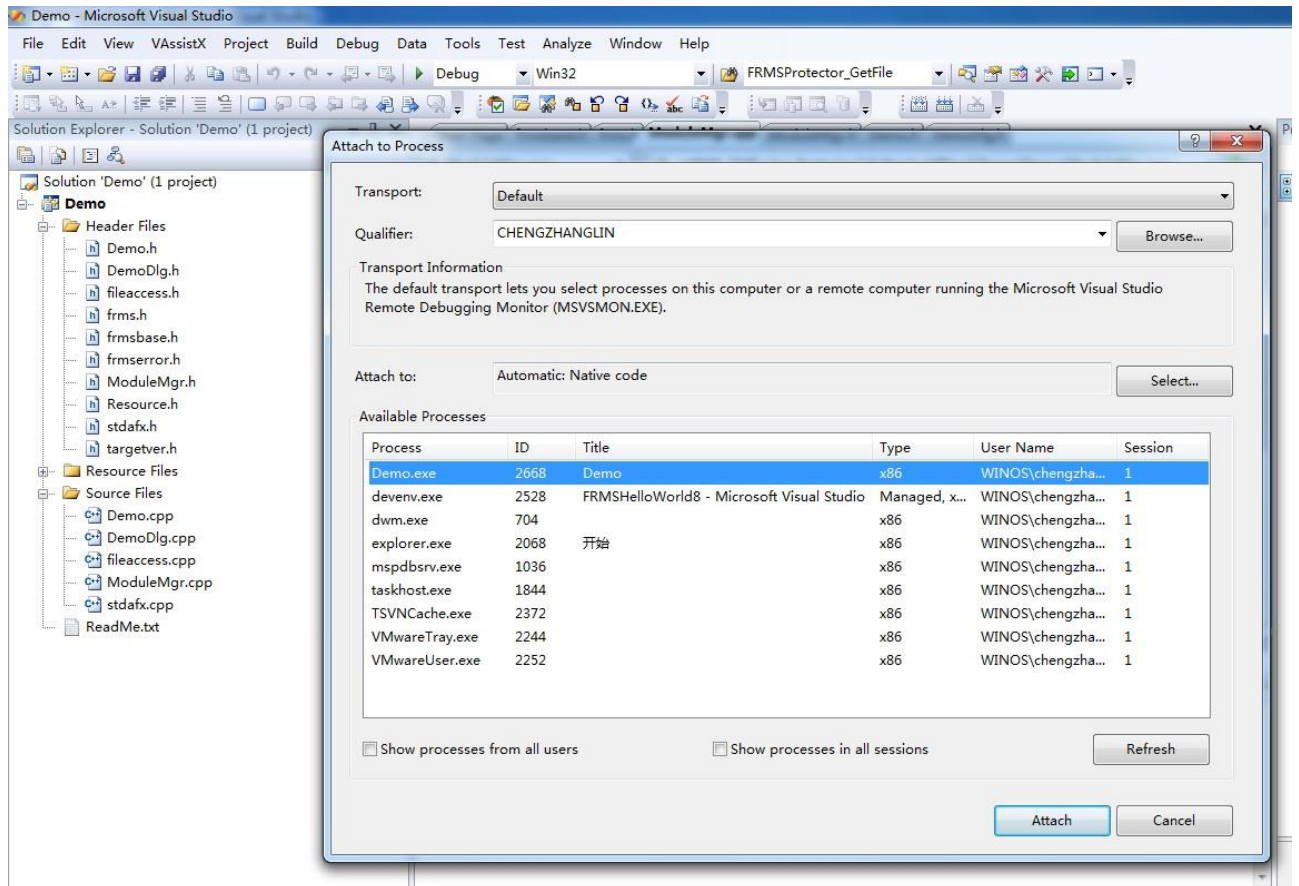
If the parameter you passed is `FRMS_API_MODE_SERVER` when calling the function "FRMS\_Initialize", you can toggle breakpoint and debug the program directly.

If the parameter you passed is `FRMS_API_MODE_CLIENT` when calling the function `FRMS_Initialize`, the anti-debugging checks in the developer version of our runtime are disabled.

### For Visual Studio 2005 or later:

You can turn on debug tracing by using the following steps:

1. Call the function `afxMessageBox` when you need to debug.
2. Run your program.
3. When the dialog box `afxMessageBox` pops up, choose the option *Attach to Process...* under the menu `Debug` of the Visual Studio. In the dialog box, choose your application program and click *Attach*.



4. Set the debugging breakpoint behind `AfxMessageBox`. When you close the dialog box `AfxMessageBox`, the breakpoint will be activated.

**For VC6.0:**

1. Open `regedit.exe` and navigate to `HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\WindowsNT\CurrentVersion\AeDebug`
2. Change the following key values:

Key :Auto

Value: 0

Key: Debugger

Value: `C:\Program Files\Microsoft Visual Studio\Common\MSDev98\Bin\msdev.exe" -p %ld -e %ld`

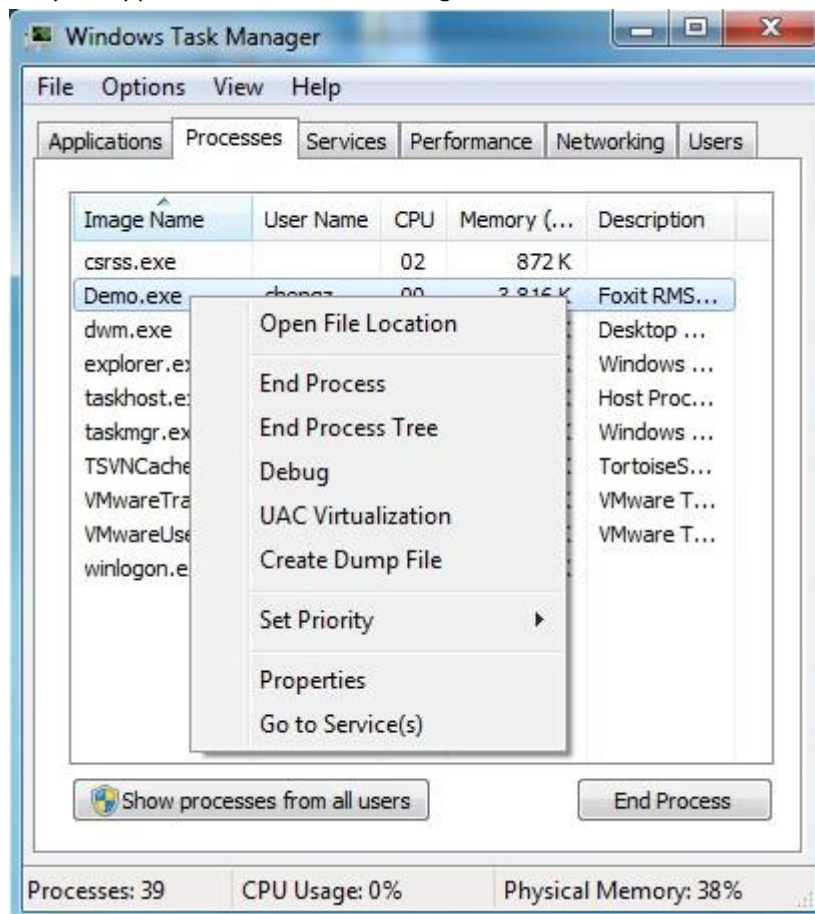
NOTE: Ensure that "YourAppName.exe" is consistent with the actual `msdev.exe`.

Key: UserDebuggerHotKey

Value: 0

3. Restart your computer.
4. Call the function `AfxMessageBox` when you need to debug.
5. Run your program. Then the dialog box `AfxMessageBox` pops up.

6. Open Windows Task Manager.
7. Right-click on your application and choose Debug. VC6.0 will be started automatically.



- i. Open the debug file and set the debugging breakpoint behind AfxMessageBox. When you close the dialog box AfxMessageBox, the breakpoint will be activated.

## How to Understand Common Error Conditions and Solutions

### 1. When running your application, the error prompt may appear as below:

This application is not trusted to consume rights managed content. The application's rights management manifest is missing or is not valid. Contact your application support for further investigation.

#### Action required to fix the error:

Make sure you regenerate your application manifest every time you rebuild your application.

### 2. When running your application, the error prompt may appear as below:

This operation could not be completed because a debugger was detected.

### Action required to fix the error:

Please choose the option **Start without debugging** under the menu Debug of the Visual Studio to debug and run your program.

## 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 [here](#).
- 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.

- **Office Address:**  
Foxit Software Incorporated  
42840 Christy Street. Suite 201  
Fremont CA 94538  
USA
- **Mailing Address:**  
Foxit Software Incorporated  
42840 Christy Street. Suite 201  
Fremont CA 94538  
USA
- **Sales:**  
1-866-680-3668 (24/7)
- **Support:**  
1-866-MYFOXIT or 1-866-693-6948 (24/7)
- **Fax:**  
530-535-9288
- **Website:**  
[www.foxitsoftware.com](http://www.foxitsoftware.com)
- **E-mail:**  
Sales and Information - [sales@foxitsoftware.com](mailto:sales@foxitsoftware.com)  
Technical Support - Input [a trouble ticket online](#)  
Marketing Service - [marketing@foxitsoftware.com](mailto:marketing@foxitsoftware.com)