How to install UseOffice .Net at Windows 2003, 2008, 2012 and 2016 Servers.

- 1. <u>How to install UseOffice .Net at Windows 2003 Server (XP, 2003)</u> <u>under IIS 5.0 or later</u>
- 2. <u>How to install UseOffice .Net at Windows 2008 Server (Windows 7,</u> <u>Vista, Azure) under IIS 7.0 or later</u>
- 3. <u>How to install UseOffice .Net at Windows 2012</u>, 2016 Server (Win 8, 8.1) under IIS 8.0

1. Start -> Run dcomcnfg.exe



2. Expand Component Services



3. Expand Computers

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6. Select Microsoft Excel Application



7. Right-click and select properties



8. Click on the security tab

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9. Under Launch and Activation permissions select

Customize and click on Edit

 File Action View Window H 	Microsoft Excel Application	Properties	8 23		_ 5 ×
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10. Add the following users ASPNET, IUSR_<machinename>,

IWAM_<machinename> and NETWORK SERVICE if IIS running on

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>	Microsoft Equation 3.0	
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If you don't see Microsoft Excel or Microsoft Word, please read this article.

Configuring Office as a Specific User

To set up an Office Automation server under a specific user account, follow these steps:

1. Log on to the computer as the Administrator and create a new user account that will automate Office. In our example, this account is named **OfficeAutomationUser**. Create a password for this user account, and select **Never expire** so that the password does not have to be changed.

2. Add the OfficeAutomationUser account to the Administrators group.

3. Log in to the computer as **OfficeAutomationUser** and install (or reinstall) Office using a complete install. For system robustness, it is recommended that you copy the contents of the Office CD-ROM to a local drive and install Office from this location.

4. Start the Office application that you intend to automate. This forces the application to register itself.

5. After the application is running, press ALT+F11 to load the Microsoft Visual Basic for Applications (VBA) editor. This forces VBA to initialize itself.

6. Close the applications, including VBA.

7. Click Start, click Run, and then type DCOMCNFG.

Select the application that you want to automate. The application names are listed below:

Microsoft Access 97/2002 - Microsoft Access Database Microsoft Access 2003 - Microsoft Office Access Application

Microsoft Excel 97/2000/2002/2003 - Microsoft Excel Application Microsoft Word 97 - Microsoft Word Basic

Microsoft Word 2000/2002/2003 - Microsoft Word Document

Click **Properties** to open the property dialog box for this application.

8. Click the **Security** tab. Verify that **Use Default Access Permissions** and **Use Default Launch Permissions** are selected.

9. Click the Identity tab. Select This User and type the username and password for

OfficeAutomationUser. 10. Click **OK** to close the property dialog box and return to the main applications list dialog box.

11. In the DCOM Configuration dialog box, click the **Default Security** tab.

12. Click **Edit Defaults** for access permissions. Verify that the following users are listed in the access permissions, or add the users if they are not listed:

SYSTEM INTERACTIVE Everyone Administrators OfficeAutomationUser <ServerName>/IIS_IUSR* IUSR_<machinename>* IWAM_<machinename>* 13. Make sure that each user is allowed access, and then click **OK**.

14. Click **Edit Defaults** for launch permissions. Verify that the following users are listed in the launch permissions, or add the users if they are not listed:

SYSTEM INTERACTIVE Everyone Administrators OfficeAutomationUser <ServerName>/IIS_IUSR* IUSR_<machinename>* IWAM_<machinename>*

* These accounts exist only if IIS is installed on the computer.

15. Make sure that each user is allowed access, and then click **OK**. 16. Click **OK** to close DCOMCNFG.17. Start **REGEDIT** and then verify that the following keys and string values exist for the Office application that you want to automate:

Microsoft Access 2000/2002/2003:

Key: HKEY_CLASSES_ROOT\AppID\MSACCESS.EXE AppID: {73A4C9C1-D68D-11D0-98BF-00A0C90DC8D9} Microsoft Access 97:

Key: HKEY_CLASSES_ROOT\AppID\MSACCESS.EXE AppID: {8CC49940-3146-11CF-97A1-00AA00424A9F} Microsoft Excel 97/2000/2002/2003:

Key: HKEY_CLASSES_ROOT\AppID\EXCEL.EXE AppID: {00020812-0000-0000-000000000046} Microsoft Word 97/2000/2002/2003:

Key: HKEY_CLASSES_ROOT\AppID\WINWORD.EXE AppID: {00020906-0000-0000-000000000046}

If these keys do not exist, you can create them by running the following .reg file on your system:

REGEDIT4

[HKEY_CLASSES_ROOT\AppID\WINWORD.EXE] "AppID"="{00020906-0000-0000-C000-00000000046}" [HKEY_CLASSES_ROOT\AppID\EXCEL.EXE] "AppID"="{00020812-0000-0000-C000-00000000046}" [HKEY_CLASSES_ROOT\AppID\MSACCESS.EXE] "AppID"="{73A4C9C1-D68D-11D0-98BF-00A0C90DC8D9}"

Note The sample .reg file is for Access 2000, Access 2002, or Office Access 2003. If you are using Access 97, change the AppID key to:

"AppID"="{8CC49940-3146-11CF-97A1-00AA00424A9F}"

18. To avoid registry conflicts, install and run an NT service. Set the identity of the service to run as **OfficeAutomationUser**, and select **Automatic** as the startup type. For more information on creating a sample Visual C++ NT Service, see the following Microsoft Developer Network (MSDN) Web site: 19. Restart the system. This is required.

If you have these errors:

[COMException (0x800a03ec): Microsoft Excel cannot access the file '<filename>'. There are several possible reasons: • The file name or path does not exist.

• The file is being used by another program.

• The workbook you are trying to save has the same name as a currently open workbook. *Solution:*

This seems to be an issue with Excel/Word/etc not having access to a profile when being started via the interop route. 1. Open Windows Explorer

2. Depending on whether you installed a **32bit or 64bit** version of office you will need to do one (or both) of the following:

a. 32bit Office installation: Navigate to C:\Windows\System32\config\systemprofile

b. 64bit Office installation: Navigate to C:\Windows\SysWOW64\config\systemprofile

3. Verify the folder "Desktop" exists (create it if it's not there)

4. Right click > Properties

5. On the security tab: Add the account under which the site is running (eg: Network Service) with

default permissions (Read & execute; List folder contents; Read)

6. The end

How to install UseOffice .Net at Windows 2008 Server under IIS 7.0 or later

For IIS7 or later, e.g. IIS7 on Win2008 or Vista, you can just set the identity of the application pool to a user that has certain permissions (as explained below), and optionally load the user profile.

There is no need to use a COM+ solution as required for pre IIS7 machines. Using a COM+ solution will not hurt but you must ensure that the COM+ identity and the application pool identity are the same.

Further, please note that in Windows 2008 and later the user profile is no longer loaded for COM+ applications. This means that even if you do use COM+, you will still need to set the application identity in the application pool and load the user profile. Otherwise strange things might happen when the user is not logged on, depending on whether there is a service running as the same user or not. Services do have the user profile loaded.

Follow these steps to validate Office Automation on your machine:



Launch: "Control Panel"->"Administrative Tools"->"Computer Managment".

1. Create a dedicated account for running Office Automation, for example call it OfficeAutomationUser. Assign it a password that never expires.

User name:	OfficeAutomationUser	
Full name:		
Description:	UseOffice.Net	
Password	•••••	
Confirm passwo	ord:	
User must c	change password at next logon	
🔲 User cannol	t change password	
Password n	ever expires	
Account is a	disabled	

2. Add this account to the IIS groups: IIS_IUSRS or IIS_WPG if they exists (basically the IIS group where you find Network Service, which is the default application pool identity).

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Push: "Add" -> "Advanced"

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Push: "Find Now" and select "OfficeAutomationUser"

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Users or Built-in security princip	pals	Object Types
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Common Queries		
Name: Starts with	-	Columns.
Description: Starts with	-	Find Now
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Non expiring password		
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Days since last logon:	*	OK Cancel
Days since last logon:	- In Folder	OK Cancel
Days since last logon: earch results: ame (RDN) IUSR LOCAL SERVICE NETWORK NETWORK SERVICE	- In Folder	OK Cancel
earch results: ame (RDN) IUSR LOCAL SERVICE NETWORK NETWORK SERVICE	In Folder DMITRY-PC	OK Cancel
Days since last logon: earch results: ame (RDN) LUCAL SERVICE NETWORK NETWORK SERVICE OfficeAutomationUser OWNER RIGHTS REMOTE INTERACTIVE LO	The Folder	OK Cancel

- 3. Log in using this account and open at least one Office document of the type that you intend to convert. Make sure that when opening such a document there are no pop-ups. This means making sure that Office has been activated and all the initial questions Office asks have been answered, e.g. if you are running it with a trial key, etc.
- 4. Give this account (or better the IIS group that it belongs to) access permissions to the following folders, as indicated on the right.

For 64-bit machines:

C:\Windows\Temp - Modify C:\Windows\syswow64\config - Read C:\Windows\syswow64\config\systemprofile - Read C:\Windows\syswow64\config\systemprofile\AppData - Modify C:\Windows\syswow64\config\systemprofile\Desktop - Modify **(Create it if it does not exist)**



If you don't see "IIS group" please add this group using "Security" -> "Edit"

Shapes	Select Users or Groups	3
arch System32	Select this object type:	
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- Permissions for coming	Name: Starts with -	Columns
Select Users or Groups		[D. IN
Select this object type:	Description: Starts with *	Hind No
Users, Groups, or Built-in security principal	Disabled accounts	Stop
From this location	Non expiring password	
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For 32-bit machines:

C:\Windows\Temp – Modify C:\Windows\system32\config - Read C:\Windows\system32\config\systemprofile - Read C:\Windows\system32\config\systemprofile\AppData - Modify C:\Windows\system32\config\systemprofile\Desktop - Modify **(Create it if it does not exist)**

You can assign folder permissions by browsing to such folders in Windows Explorer and adding the user in the Security tab of the folder Properties dialog.

5. Give this account (or better the IIS group it belongs to) COM launch and activation permissions. In Component Services (dcomcnfg.exe) go to computers and right click on MyComputer.

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Programs (1)			
UseOffice			
₽ See more results			
dcomcnfg	×	Shut down 🔸	
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Launch the properties dialog and go to the COM Security tab. Click on "Edit Default" under "Access Permissions". Add your user and give it full access. Repeat for "Launch and Activation Permissions".

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IIS: You need to create a testing WebSite. For Example: UseOffice.local.

- Download the component <u>UseOffice .Net</u>.
- Unpack and copy a code sample: "ASP.Net Convert Doc to PDF" in "C:\inetpub\wwwroot\useoffice.local".



le in library Share with New folder	
Name	Date modified
App_Code	06.10.2013 22:11
App_Data	06.10.2013 22:11
🌽 Bin	01.11.2013 10:50
converted	01.11.2013 10:50
ASP.Net - Convert Word Excel PowerPoin	20.08.2012 15:33
box_useoffice_net	20.08.2012 15:33
Default	20.08.2012 15:33
Default.aspx.cs	18.10.2013 14:44
readme	20.08.2012 15:33
🗈 Web	20.08.2012 15:33

6. Launch "IIS Manager" from "Control Panel"->"Administrative Tools"->"IIS Manager".

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	Pass-through au Connect as Binding Type: http Host name: www.useoffice.lo Example: www.co	IP address: Test Settings. IP address: All Unassignotion ontoso.com or monomediately		• •	Port: 80	
	Pass-through au Connect as Binding Type: http Host name: www.useoffice.lo Example: www.co	IP address: Test Settings. IP address: All Unassignotal ontoso.com or montoso.com or montoso	gned	• n	Port: 80	Cancel

7. Set the identity of the application pool to **OfficeAutomationUser**. Also load the user profile by setting LoadUserProfile to true. You can do so in the application pool advanced settings:



-	(General)	
	.NET Framework Version	v2.0
	Managed Pipeline Mode	Integrated
	Name	ImportDoc
	Queue Length	1000
	Start Automatically	False
Ξ	CPU	
	Limit	0
	Limit Action	NoAction
	Limit Interval (minutes)	5
	Processor Affinity Enabled	False
	Processor Affinity Mask	4294967295
Ξ	Process Model	
	Identity (OfficeAutomation
	Idle Time-out (minutes)	20
	Load User Profile	False
	Maximum Worker Processes	1
	Ping Enabled	True
	Ping Maximum Response Time (seconds)	90
	Ping Period (seconds)	30
	Shutdown Time Limit (seconds)	90
	Startup Time Limit (seconds)	90
Ξ	Process Orphaning	
	Enabled	False
	Executable	
	Executable Parameters	
Ξ	Rapid-Fail Protection	
	"Service Unavailable" Response Type	HttpLevel
	Enabled	True
	Failure Interval (minutes)	5
	Maximum Failures	5
	Shutdown Executable	
	Shutdown Executable Parameters	
Ξ	Recycling	
	Disable Overlapped Recycle	False
	Disable Recycling for Configuration Changes	False
÷	Generate Recycle Event Log Entry	
	Private Memory Limit (KB)	0
	Regular Time Interval (minutes)	1740
_	Request Limit	0
÷	Specific Times	TimeSpan[] Array
	Virtual Memory Limit (KB)	0
Na [n po	ame ame] The application pool name is the unique id ool.	entifier for the application

9. You should be done. Check that it works.

UseOffice .Net - ASP.Net sample	(Requires MS Office installed, any version: 2000, XP, 2003, 2007 or 2010
---------------------------------	--

UseOffice .Net Component	UseOffice .Net is a component to convert between XLS, DOC, RTF, CSV, PPT, XLSX, DOCX, PPTX, Text, HTML and PDF formats. Before starting this sample, please take a look at <u>readme.htm</u> file! Can be used in: .Net 2.0, 3.0, 3.5, 4.0 and 4.5 <u>Purchase UseOffice .Net online!</u>
Please select a document for Выберите файл Файл не выб	anverting (DOC, DOCX, RTF, HTML, XLS, XLSX, Text, CSV, PPT, PPTX): 3H
Specify converting direction:	DOC_to_PDF
Output file: How to install UseOffice .Net a	Windows 2003 or 2008 or 2012 Servers.pdf
Converting successfully!	
Convert	

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- 10. You can also try to set LoadUserProfile to false, but if you do so then you should do the following: http://support.microsoft.com/kb/184291/EN-US/. This explains how to add the XPS print driver to the default user.
- 11. You may also want to use Network Service instead of a dedicated user. This might also work provided it has the required permissions (points 7 and 8) and provided you load the user profile (if you have not added the XPS print driver to the default user as explained above).

Please ensure your server software is up-to-date and a recent version of the .NET Framework installed. We normally test with .NET 4.0.

Make sure you are using a recent version of Microsoft Office. We test UseOffice.NET with Microsoft Office 2007/2010, the current version. This is our preferred version as we find it easiest to support. Versions prior to Office 2003 may work but are unsupported.

Make sure your MS Office installation is fully complete and activated. Attempting to automate MS Office with a partial installation may cause the MS Office setup executable to launch and block the automation. Open some documents manually to check that Office is working correctly.

You may wish to disable any Microsoft Office start up utilities to ensure that Office processes are shut down after use rather than kept alive in the background. This may be important if you're going to be changing the user at a later stage.

This is not normally necessary unless the default settings have been changed.

We want the Office Application to launch as the "Launching User" when it is activated via DCOM.

1. Launch DCOMCNFG.

Note that there are both x86 and x64 versions of DCOMCNFG. By default on x64 versions of Windows the x64 version is launched. To launch the x86 version you will need to perform the following command line operation:

C:\WINDOWS\SysWOW64> mmc comexp.msc /32

- 2. Go to Computers > MyComputer > DCOM Config.
- 3. Right-click the application that you want to automate. The application names are listed below:

Application MS Access 97 MS Access 2000/2002/2003 MS Office Access 2007 MS Excel 97/2000/2002/2003 MS Office Excel 2007 MS Office Excel 2010 MS Word 97 MS Word 2000/2002/2003 MS Office Word 2007 MS Office Word 2010

DCOM Name Microsoft Access Database Microsoft Access Application Microsoft Office Access Application Microsoft Excel Application Microsoft Excel Application Microsoft Excel Application Microsoft Word Basic Microsoft Word Document Microsoft Office Word 97 - 2003 Document Microsoft Word 97 - 2003 Document

On some systems Microsoft Word is not displayed and you will have to use {00020906-0000-0000-C000-00000000046} instead.

Click **Properties** to open the property dialog box for this application.

4. Click the Identity tab. Verify that The Launching User is selected.

How to install UseOffice .Net at Windows 2012 - 2016 Server under IIS 8.0

For IIS8 on Win2012, you can just set the identity of the application pool to a user that has certain permissions (as explained below), and optionally load the user profile.

There is no need to use a COM+ solution as required for pre IIS8 machines. Using a COM+ solution will not hurt but you must ensure that the COM+ identity and the application pool identity are the same.

Further, please note that in Windows 2012 and later the user profile is no longer loaded for COM+ applications. This means that even if you do use COM+, you will still need to set the application identity in the application pool and load the user profile. Otherwise strange things might happen when the user is not logged on, depending on whether there is a service running as the same user or not. Services do have the user profile loaded.

Follow these steps to validate Office Automation on your machine:

- 1. Create a dedicated account for running Office Automation, for example call it OfficeAutomationUser. Assign it a password that never expires.
- 2. Add this account to the IIS groups: IIS_IUSRS or IIS_WPG if they exists (basically the IIS group where you find Network Service, which is the default application pool identity).
- 3. Log in using this account and open at least one Office document of the type that you intend to convert. Make sure that when opening such a document there are no pop-ups. This means making sure that Office has been activated and all the initial questions Office asks have been answered, e.g. if you are running it with a trial key, etc.
- 4. Logging in using this account is also necessary to initialize the XPS print driver, otherwise you might get INVALID_PRINTER_NAME (1801) errors.
- 5. Give this account (or better the IIS group that it belongs to) access permissions to the following folders, as indicated on the right. For 64-bit machines:

C:\Windows\Temp - Modify

C:\Windows\syswow64\config - Read

C:\Windows\syswow64\config\systemprofile - Read

C:\Windows\syswow64\config\systemprofile\AppData - Modify

C:\Windows\syswow64\config\systemprofile\Desktop - Modify (Create it if it does not exist)

For 32-bit machines:

C:\Windows\Temp - Modify

C:\Windows\system32\config - Read

C:\Windows\system32\config\systemprofile - Read

C:\Windows\system32\config\systemprofile\AppData - Modify

C:\Windows\system32\config\systemprofile\Desktop - Modify (Create it if it does not exist)

You can assign folder permissions by browsing to such folders in Windows Explorer and adding the user in the Security tab of the folder Properties dialog.

6. Give this account (or better the IIS group it belongs to) COM launch and activation permissions. In Component Services (dcomcnfg.exe) go to computers and right click on MyComputer. Launch the properties dialog and go to the COM Security tab. Click on "Edit Default" under "Access Permissions". Add your user and give it full access. Repeat for "Launch and Activation Permissions".

- 7. Set the identity of the application pool to OfficeAutomationUser
- 8. You should be done. Check that it works.
- 9. You can also try to set LoadUserProfile to false, but if you do so then you should do the following:http://support.microsoft.com/kb/184291/EN-US/. This explains how to add the XPS print driver to the default user.
- 10. You may also want to use Network Service instead of a dedicated user. This might also work provided it has the required permissions (points 7 and 8) and provided you load the user profile (if you have not added the XPS print driver to the default user as explained above).

Additional Information on Configuring Office

This is not normally necessary unless the default settings have been changed.

We want the Office Application to launch as the "Launching User" when it is activated via DCOM.

1. Launch DCOMCNFG.

Note that there are both x86 and x64 versions of DCOMCNFG. By default on x64 versions of Windows the x64 version is launched. To launch the x86 version you will need to perform the following command line operation:

C:\WINDOWS\SysWOW64> mmc comexp.msc /32

- 2. Go to Computers > MyComputer > DCOM Config.
- 3. Right-click the application that you want to automate. The application names are listed below:

Application MS Access 97 MS Access 2000/2002/2003 MS Office Access 2007 MS Excel 97/2000/2002/2003 MS Office Excel 2007 MS Office Excel 2010 MS Word 97 MS Word 2000/2002/2003 MS Office Word 2007 MS Office Word 2010

DCOM Name Microsoft Access Database Microsoft Access Application Microsoft Office Access Application Microsoft Excel Application Microsoft Excel Application Microsoft Excel Application Microsoft Word Basic Microsoft Word Document Microsoft Office Word 97 - 2003 Document Microsoft Word 97 - 2003 Document

On some systems Microsoft Word is not displayed and you will have to use {00020906-0000-0000-C000-00000000046} instead.

Click **Properties** to open the property dialog box for this application.

4. Click the Identity tab. Verify that The Launching User is selected.

Lowering Admin Rights

We ask that the COM+ account has Administrator rights because it requires permissions that the standard Users group does not normally have. However you can remove your Office Automation user from the Administrators group as long as you give it the following permissions:

• It must have access to the following system folders, as indicated on the right. For 64-bit machines:

C:\Windows\Temp - Modify C:\Windows\syswow64\config - Read C:\Windows\syswow64\config\systemprofile - Read C:\Windows\syswow64\config\systemprofile\AppData - Modify C:\Windows\syswow64\config\systemprofile\Desktop - Modify **(Create it if it does not exist)**

For 32-bit machines:

C:\Windows\Temp - Modify C:\Windows\system32\config - Read C:\Windows\system32\config\systemprofile - Read C:\Windows\system32\config\systemprofile\AppData - Modify C:\Windows\system32\config\systemprofile\Desktop - Modify **(Create it if it does not exist)**

You can assign folder permissions by browsing to such folders in Windows explorer and adding the user in the Security tab of the folder Properties dialog.

 It must have COM launch and activation permissions. In Component Services (dcomcnfg.exe) go to computers and right click on MyComputer. Launch the properties dialog and go to the COM Security tab. Click on "Edit Default" under "Access Permissions". Add your user and give it full access. Repeat for "Launch and Activation Permissions". Please let us know if you will have any questions:

E-mail: <u>support@sautinsoft.com</u> Skype: live:skype_9606.

Best wishes, SautinSoft company