

# Workshare Compare Installation Guide

## Company Information

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Workshare Compare Installation Guide

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## Useful Information

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The following information may be useful.

### Additional Documentation

In addition to this guide, you should also have the Workshare Compare User Guide and the Workshare Compare Getting Started Guide. If you are interested in the concepts behind Workshare Compare and other products from Workshare, you can read white papers and download product demos from [www.workshare.com](http://www.workshare.com).

### Contacting Technical Support

To contact Workshare support, please refer to: <http://www.workshare.com/support/>.

### Knowledge Base

There is now a Workshare knowledge base with many solutions to common problems. To search this knowledge base, follow these steps:

1. Go to [www.workshare.com](http://www.workshare.com).
2. Select **Support**.
3. Enter keywords (for example, collaboration tool) and click **Find Article**. A list of results is displayed.
4. Click a link to display the details.

### Feedback

If you have any comments about Workshare Compare — ideas for improvements, new features or anything at all — please feel free to email our Product Management team at: [feedback@workshare.com](mailto:feedback@workshare.com).

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# Chapter 1. Installation Overview

This chapter introduces Workshare Compare providing an overview of the installation of Workshare Compare as well as a list of system requirements. It includes the following sections:

- **What is Workshare Compare?**, below, introduces Workshare Compare and its key functionality.
- **System Requirements**, page **Error! Bookmark not defined.**, describes the system attributes required in order to install and run Workshare Compare.
- **Installation Best Practice Guidelines**, page 11, describes the recommended installation and deployment procedure for Workshare Compare.
- **Important Information**, page 16, provides important information that should be read before installing, configuring and deploying Workshare Compare.
- **Licensing**, page 20, provides information about the various licenses available for Workshare Compare.

## What is Workshare Compare?

Workshare Compare is a document comparison tool designed to make the process of editing and revising documents as fast and efficient as possible. Workshare Compare enables you to compare documents – the original document and the modified document – and produce a comparison (Redline) document, enabling you to instantly see any differences between them. You can review the Redline document by navigating between the changes. To make the review easier, you can select different rendering sets to determine how the changes are highlighted within the document. A statistical summary at the end of the Redline document enables you to precisely match the document changes.

In one view, you can see both the original documents and the comparison document. You can compare an original document against several different modified documents and see the Redline document for each comparison in a different tab.

You can compare Microsoft Word (DOC/DOCX), RTF and PDF files. Within a Microsoft Word file, you can compare all content including images, tables and embedded Microsoft Excel tables.

For users who have a DMS, Workshare Compare provides access to version information stored in the DMS. Understanding differences between one version of a document and the next is a critical function when editing and reviewing documents in multi-user environments.

Workshare Compare utilizes Workshare DeltaView - the market-leading and most advanced comparison engine in the market today, to perform comparisons accurately and seamlessly. Comparison results are displayed within Microsoft Word or in a separate Workshare Compare window.

Workshare Compare's fast, accurate and reliable document comparison capabilities enable you to quickly compare even the most difficult and complex documents.

## System Requirements

You should check that your system meets the following requirements:

|  |  |
|--|--|
| <b>Minimum System Requirements</b>     | <p>Microsoft Windows XP SP2 / Vista SP1<br/> P4 2.8GHz + Pentium processor (XP) or P4 3.2GHz + Pentium processor (Vista)<br/> 1GB RAM (XP) or 1.5GB RAM (Vista)<br/> 800MB free disk space</p> |
| <b>Recommended System Requirements</b> | <p>Microsoft Windows XP SP3 / Vista SP1<br/> Intel Core 2 DUO @ 2.2GHz<br/> AMD Athlon 64 X2 4400+<br/> 2GB RAM<br/> 2GB free disk space</p>   |

## Compatibility

Workshare Compare is compatible with the following:

### Operating System:

- Microsoft Windows XP (SP3 and above)
- Microsoft Windows Vista (32 bit and 64 bit) – UAC disabled
- Microsoft Windows 7 (32 bit and 64 bit)
- Microsoft Windows 2003 Server (32 bit and 64 bit)
- Microsoft Windows 2003 R2 Server (32 bit and 64 bit)
- Microsoft Windows 2008 Server (64 bit)
- Microsoft Windows 2008 R2 Server (64 bit)

### Citrix (deployed Published Applications and Published Desktop):

**Note:** Check with your Citrix vendor about which Windows operating system supports your Citrix.

- Citrix Presentation Server 4.0 and 4.5
- Citrix XenApp 5.0

### Microsoft Office System:

- Microsoft Office 2007 (No SP, SP1 and SP2)
- Microsoft Office 2003 (No SP, SP1, SP2 and SP3)
- Microsoft Office XP (SP2 and SP3)

**Note:** You should have a **full** installation of Microsoft Word, Excel and PowerPoint. Microsoft Office should be installed on a per machine basis.

#### Email System:

- Microsoft Outlook 2007 (No SP, SP1 and SP2)
- Microsoft Outlook 2003 (No SP, SP1, SP2 and SP3)
- Microsoft Outlook XP (SP2 and SP3)
- IBM Lotus Notes 7.03 to 8.5.1

**Note:** You should have a **full** installation of Microsoft Outlook. It should be installed on a per machine basis.

#### Microsoft SharePoint:

- Microsoft Office SharePoint Server 2007

#### DMS Integration:

**Note:** Check with your DMS vendor about which Windows operating system supports your DMS.

- Autonomy Interwoven
  - WorkSite Server 8 for MailSite/DeskSite Client 8
  - WorkSite Server 8.1 for FileSite/DeskSite Client 8.1
  - WorkSite Server 8.1 for FileSite/DeskSite Client 8.2 SP1
  - WorkSite Server 8.2 for FileSite/DeskSite Client 8.2 SP1
  - WorkSite Server 8.3 for FileSite/DeskSite Client 8.2 SP1
  - WorkSite Server 8.4 for FileSite/DeskSite Client 8.2 SP1
  - WorkSite Server 8.5 for FileSite/DeskSite Client 8.5

**Note:** IBM Lotus Notes users working with the WorkSite Server 8.5 Email Management Module (EMM) should be aware that they must use WorkSite Communication Server 8.2 SP1 P4. For further information, contact Autonomy Interwoven.

- Open Text
  - Hummingbird DOCS Open 3.9.6
  - Hummingbird DOCS Open 4.0
  - Hummingbird DOCS Open 4.1
  - Hummingbird DM 5.1.0.5, SR5 and SR6 (ODMA only)
  - Hummingbird DM 5.2.1 CU4 and below (ODMA and COM)
  - Hummingbird DM 6.0.1 and below (ODMA and COM)

**Note:** Worldox integration is supplied and supported by Worldox.

#### Additional Support:

- Multilanguage support for ASCII and Unicode language documents and operating systems

## Installation Best Practice Guidelines

This guide will take you through a typical Workshare Compare installation. The general steps involved are as follows:

1. Install Workshare Compare on a single workstation (described in *Chapter 2: Installation*).
2. Configure Workshare Compare, as you want it to work in your organization (described in *Chapter 3: Configuration*).
3. Save the configuration in a configuration (INI) file to a network share location (described in *Saving Configuration Files in Chapter 3: Configuration*).
4. Deploy Workshare Compare across your network, specifying the LICFILE parameter so that it is licensed and the INIFILE parameter so that it is configured uniformly across your organization (described in *Chapter 5: Network Deployment*).

It is recommended that you follow the guidelines listed below when installing Workshare Compare to ensure a smooth and trouble-free installation:

- Ensure that your system meets the minimum requirements for Workshare Compare shown on page **Error! Bookmark not defined.**
- Ensure that all important data is backed up prior to installation.
- Close all other applications before installing Workshare Compare.
- Elevated/administrator privileges are required to install Workshare Compare.
- Only recommended installation properties such as INSTALLDIR should be altered. Any major changes to the installation procedures may cause issues with the software.
- Workshare MSI files should not be directly edited. Changes can be applied via a transform file (.mst) or other method of applying properties such as command line parameters.
- Transform files may be created via any third party software that entirely supports Windows Installer technology.
- Workshare MSI files should not be repackaged. Certain custom actions that are contained in the original MSI file may be missed and may also prevent future upgrades.
- Workshare MSI files should not be patched with in-house authored MSP files as this may cause future upgrade issues and system instability.
- Additional customer specific files and Registry keys may be deployed alongside Workshare software as long as they do not interact or replace any files or Registry keys belonging to the product.
- No additional third party software should be bundled into any Workshare MSI.

If you have any queries about the installation of Workshare Compare that are not dealt with in this guide, please contact Workshare Technical Support (details on page 3).

## Workshare Compare Installation Files

This section describes the Workshare Compare executables, Windows Installer Packages and shared components.

### Executables

Workshare Compare is installed using a single, downloadable self-extracting executable called **WorkshareCompare-9800.xxx.exe**.

On a single workstation, the easiest way to install Workshare Compare is to simply run the install EXE file and answer any questions asked. Where an installation per computer is not feasible, you can deploy Workshare Compare to multiple workstations using methods described in *Chapter 5: Network Deployment*.

### Prerequisite Components

The prerequisites for Workshare Compare depend on the version of the operating system and the version of Microsoft Office. They are described in the following table. Prerequisites for other versions of Workshare Compare may be slightly different.

Workshare Compare is a native x86 application. It normally requires the x86 prerequisites for proper operation. The exception is the Microsoft .NET Framework which must have the appropriate x86/x64 version installed.

| Prerequisite   | Version     | OS                           | Office       | Notes  |
|--|-------------|------------------------------|--------------|--|
| <b>Windows Installer</b>   | 3.1.0.0     | Windows XP, Server 2003      | NA           |  |
| <b>Microsoft .NET Framework 3.0</b>  | 3.0.4506.30 | Windows XP, Server 2003      | NA           | Microsoft .NET Framework 3 contains Microsoft .NET Framework 2 and MSXML 6.0.  |
| <b>KB908002 - Shared Add-in Support Update for Microsoft .NET Framework 2.0</b>        | 1.0.0       | NA                           | All versions | This KB is required for Microsoft Office to load .NET add-ins.                 |
| <b>MSXML 6.0</b>   | NA          | NA                           | NA           | This prerequisite is installed by the Microsoft .NET Framework 3 install.      |
| <b>Microsoft Visual C++ 2005 SP1 Redistributable Package ATL Security Update (x86)</b> | 8.0.5193    | All (including x64 versions) | NA           |  |
| <b>Microsoft Visual C++ 2005 SP1 Redistributable Package ATL Security Update (x64)</b> | 8.0.5192    | x64 OS versions              | NA           | The right-click handler is written in x64 code and requires this prerequisite. |

| Prerequisite   | Version        | OS                           | Office                   | Notes   |
|--|----------------|------------------------------|--------------------------|---|
| <b>Microsoft Visual C++ 2008 SP1 Redistributable Package ATL Security Update (x86)</b> | 9.0.30729.4148 | All (including x64 versions) | NA                       |   |
| <b>Microsoft Visual C++ 2008 SP1 Redistributable Package ATL Security Update (x64)</b> | 9.0.30729.4148 | x64 OS versions              | NA                       | The right-click handler is written in x64 code and requires this prerequisite.  |
| <b>Microsoft Report Viewer (x86)</b>   | 8.0.50727.42   | All                          | NA                       |   |
| <b>KB907417 – Update for Office 2003</b>   | 1.0.0          | NA                           | Office 2003              |   |
| <b>KB935514 – Update for Office 2007</b>   | 1.0.0          | NA                           | Office 2007 pre SP1 only |   |
| <b>Microsoft Office System Primary Interop Assemblies (PIA)</b>                        | 12.0.4518.1014 | NA                           | Office 2007              |   |
| <b>Open XML Format SDK</b>   | 1.0.1825       | All                          | NA                       |   |
| <b>Windows Installer for Server 2003 (x64)</b>   | 3.1            | Windows Server 2003 x64      | n/a                      | <a href="http://www.microsoft.com/downloads/details.aspx?FamilyId=8B4E6B93-1886-4D47-A18D-35581C42ECA0&amp;displaylang=en">http://www.microsoft.com/downloads/details.aspx?FamilyId=8B4E6B93-1886-4D47-A18D-35581C42ECA0&amp;displaylang=en</a> |
| <b>Windows Installer for Server 2003 (x86)</b>   | 3.1            | Windows Server 2003 x86      | n/a                      | <a href="http://www.microsoft.com/downloads/details.aspx?FamilyId=8B4E6B93-1886-4D47-A18D-35581C42ECA0&amp;displaylang=en">http://www.microsoft.com/downloads/details.aspx?FamilyId=8B4E6B93-1886-4D47-A18D-35581C42ECA0&amp;displaylang=en</a> |

**Note:** *Windows Installer and Microsoft .NET Framework should be installed first. The other prerequisite components can be installed in any order.*

For further information about each prerequisite, refer to *Appendix D: Workshare Compare Prerequisites*.

## Windows Installer Packages

If you need to extract the MSI it can be extracted from the executable using third party zip tools, and run directly. The MSIs that can be extracted from the executable files are as follows:

- **Workshare PDF Converter Version 5.1.168**
- **Workshare Compare Client** - WorkshareCompare.msi installs Workshare Compare.

If you install using an extracted MSI, you must first install all the prerequisite components described above.

*Note: Please ensure that all the prerequisites and the MSIs are installed in the same user context.*

## Workshare PDF Publisher

When Workshare Compare is installed it creates a printer called **Workshare PDF Publisher** in the user's **Printers** folder.

## Important Information

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### Upgrading from Workshare Compare

Users who are upgrading from earlier versions of Workshare Compare should not re-use their configuration (INI) files. Several settings have changed, which makes previous INI settings invalid. If INI files from earlier versions of Workshare Compare are used, errors may be encountered. Users should create new INI files for distribution using the Workshare Configuration Manager from Workshare Compare 5.2 SR3.

When upgrading from earlier versions of Workshare Compare, the general configuration settings are carried over to Workshare Compare 5.2 SR3. See the *Workshare Compare Release Notes* for further information.

## System and Diagnostic Checks

### System Checks

Workshare Compare performs the following system checks during the installation process:

- The version of Microsoft Windows operating system
- The amount of available memory
- The availability of Active Template Library 8.0
- The availability of Microsoft Framework Classes 8.0
- The following applications are closed: Microsoft Word, Microsoft Outlook, IBM Lotus Notes, IBM Lotus Notes Login, Hummingbird DOCS Open, Interwoven, Hummingbird
- Microsoft Word is version 10 or above

- Microsoft XML is version 6 or above
- Microsoft Internet Explorer is version 5.5 or above
- Microsoft .NET Framework is version 3.0

## Diagnostic Checks

Workshare Compare performs the following diagnostic checks during the installation process:

- There is a default document provider specified in settings.xml
- The document template files exist where specified
- Microsoft Office has registered Workshare Compare Add-Ins
- The options.xml and settings.xml files exist where specified
- The Protect COM Registry entries exist and point to a valid file
- All files in the ShippingManifest.xml file exist
- The current user Application Folder entry in the Registry is valid
- The current code page is valid
- Other email system-specific checks are successful

## Workshare Configuration Assistant

The Workshare Configuration Assistant (WCA) is a program that completes the Workshare Compare installation process. The WCA is not optional as it performs actions that are required to correctly install Workshare Compare. The install process automatically runs the WCA silently.

### Re-Running the WCA

Following installation, the WCA can be run as a separate executable for any of the following reasons:

- To repair or continue a previously incomplete installation
- To distribute a configuration (INI) file
- To update an installation

When re-run, the WCA provides information on the progress of installation and any necessary messaging if any problems are encountered. If a problem is encountered, the user can access the online Workshare knowledge base which provides an extended description and, where possible, a solution to resolve the problem.

The executable is named **WMConfigAssistant.exe** and is found in the **Modules** folder of the Workshare Compare installation directory. To be run, the WCA requires administration rights to the workstation.

The WCA executable is run from the command line, from within a DOS window or using a batch (.bat) file. This should only be attempted by the network administrator or other qualified personnel. The WCA can be run silently, without any user interface and quietly, with a reduced user interface.

The WCA is also available from the Start Menu: Start > Programs > Workshare > Workshare Configuration Assistant.

To run the WCA from the command line, the following syntax should be used:

```
"C:\Program Files\Workshare\Modules\WMConfigAssistant.exe" /INSTALL /SILENT
/INIFILE="\\InstallMachine\Workshare\Workshare.ini"
/LOGFILE="\\InstallMachine\Workshare\Workshare.log"
```

Where the switches can be:

| Switch                   | Value   |
|--------------------------|---|
| <b>SILENT</b>            | Indicates that the WCA is to be run silently, with no user interface.   |
| <b>QUIET</b>             | Indicates that the WCA is to be run with a reduced user interface.  |
| <b>INIFILE</b>           | Name and location of the configuration file. For example, <b>INIFILE="\\server\share\inifile.ini"</b> . The specified INI file will be loaded to the <b>Modules\Config</b> folder of the Workshare Compare installation directory. For further information on the INI file, refer to <i>Chapter 3: Configuration</i> .  |
| <b>LOGFILE</b>           | Name and location of the WCA log file. For example, <b>LOGFILE="\\server\share\logfile.log"</b> . The log file can either be stored at a shared location or stored locally on the workstation.<br><br>If a location is not specified for the log file it will be written to the local TEMP folder. By default the log file is named <b>WorkshareConfig.log</b> .<br><br>The WCA log file will provide details of all the steps the WCA has taken and can be passed to Workshare if any difficulties are encountered.<br><br>The log file is appended to, not overwritten, in order to retain all logged information. Therefore the latest details will be at the end of the log file. |
| <b>LICFILE</b>           | Name and location of the license file. For example, <b>LICFILE="\\server\share\Workshare.lic"</b> . The specified LIC file will be copied to the <b>Modules</b> folder of the Workshare Compare installation directory.   |
| <b>NOTESINIFILE_PATH</b> | Location of the notes.ini file. This should be specified in non-standard IBM Lotus Notes environments to ensure that Workshare components are added correctly to the INI file by the install.   |
| <b>CONFIGURED_MSONLY</b> | Indicates that the WCA will run and ONLY configure the user's Interwoven DMS settings. No diagnostics tests are performed by the WCA when this switch is used.  |

**Note:** The command must be entered on one line. You can use **INSTALL**, **UNINSTALL**, **REINSTALL** or **REPAIR** as the preceding switch. The use of " " should be used where there is character spacing in file paths.

## Workshare Menu

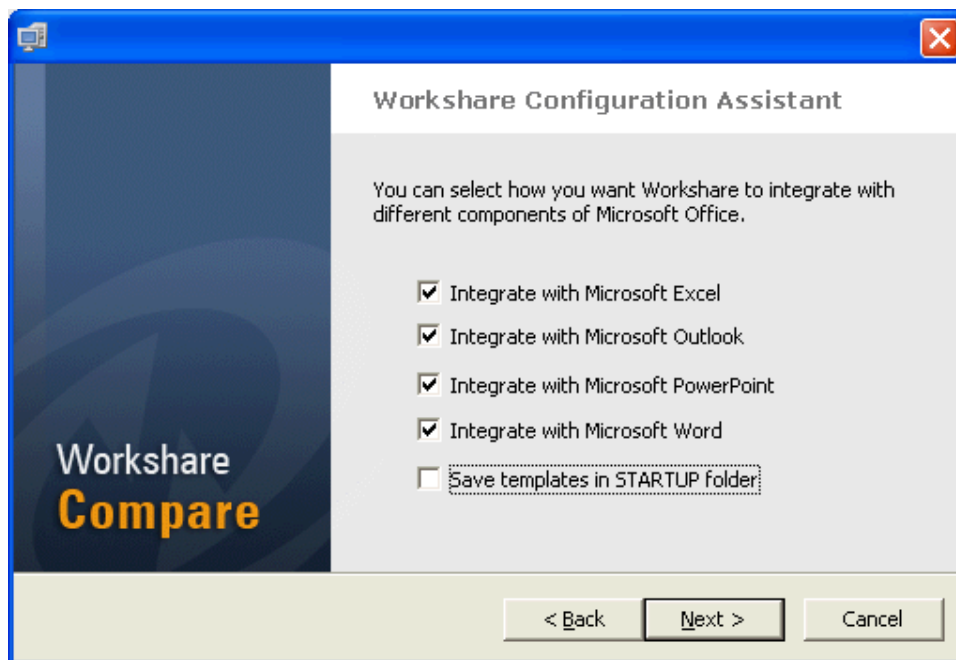
(This section is only relevant for users working with Microsoft Office 2003/XP.)

The Workshare menu is installed as a template called `_Workshare3.dot`. If you need to change the location of the Workshare menu, open `_Workshare3.dot` located in the **Modules** folder of the Workshare Compare installation directory. In the template file, move the Workshare menu to the position in the menu bar required and save the template.

If for any reason Workshare Compare is unable to display the Workshare menu when opening Microsoft Word, Workshare Compare will alert you to the problem and ask if you would like Workshare Compare to repair the problem. You may lose menu customizations when Workshare Compare repairs the problem.

## Workshare Microsoft Office Integration

Workshare Compare can be installed with or without Microsoft Office integration. If you want to change the integration of Workshare Compare with Microsoft Office applications, re-run the Workshare Configuration Assistant (described on page 17).



By deselecting the checkboxes, you can configure Workshare Compare to run without Microsoft Office integration. For example, by deselecting **Integrate with Microsoft Word**, there will be no Workshare Panel or Workshare menu/tab available in Microsoft Word. In this case, the comparison functionality is only available from the Workshare Compare application. The **Integrate with Microsoft Outlook** option refers to the Workshare Compare Outlook integration. So, for example, if you install Workshare Compare with no Microsoft Outlook integration, when you receive an email with an attachment, the **Compare Attachment with Workshare** button/dropdown list will not be available. Additionally, you can select the **Save templates in STARTUP folder** to save the Workshare templates to the Microsoft Word STARTUP folder.

**Note:** In command line installations, Microsoft Office integration is installed by default. The **Save templates in STARTUP folder** option can be turned on by creating the following Registry key:

**Save TemplatesToStartupFolder** with a DWORD value of **1** in the following Registry location: `HKEY_LOCAL_MACHINE\SOFTWARE\Workshare\Framework\Settings`. You must create this Registry key before running the Workshare Compare installer.

For further information about Microsoft Office integration in command line installations, see page 77.

## Configuration (INI) File

Workshare Compare settings can be distributed using a configuration (INI) file. The INI file encapsulates all the Workshare Compare configuration settings stored as XML data. Do not manually edit this file for any reason.

Using a configuration file, you can establish a global set of Workshare Compare parameters that can be used to standardize the use of Workshare Compare across your organization. The configuration file can be called anything as long as it has an INI extension and is placed in the **Config** folder of the Workshare Compare installation directory.

The configuration file is created using the Workshare Configuration Manager, which is accessed from the Options page of the Workshare Panel.

For a full description of the Workshare Compare configuration parameters and the Workshare Configuration Manager, refer to *Chapter 3: Configuration*.

## Licensing

Workshare Compare can be licensed during installation or after installation. Licensing is effected using an authorization code or a license file issued by Workshare Ltd. Either or both of these can be used to license Workshare Compare.

There are several different license types, as follows:

|                               |   |
|-------------------------------|---|
| <b>Full Permanent License</b> | Issued to end users who have purchased a Workshare application. This license provides full access to the application as well as integration with a specified Document Management System. This license enables the Compare module.   |
| <b>Full Permanent License</b> | Issued to end users who have purchased a Workshare application. This license provides full access to the application as well as integration with a specified Document Management System (Interwoven, Hummingbird or SharePoint). This license enables the Compare module. |
| <b>1, 2 3 Term License</b>    | This license is the same as the permanent license except it is valid for a specific period (one, two or three years) and not permanently.   |
| <b>Temporary License</b>      | Issued to end users who have purchased a Workshare application, as a form of interim licensing. If required, this type of license can be used prior to delivery of a permanent license.   |
| <b>Evaluation License</b>     | Valid for a specified period of time, for potential users currently evaluating the software.  |

**Demo/Trial License**

Valid for 14 days to enable users to try the software. Users are reminded on a daily basis how many days are left to run of the trial period.

## Chapter 2. Installation

Workshare Compare can be installed on a single workstation or deployed across a network.

As part of the installation process, the WCA (see page 17) checks the configuration of your system and guides you through the licensing of Workshare Compare.

This chapter describes the installation and licensing procedure. It includes the following section:

- **Installing Workshare Compare**, below, describes the step-by-step procedure required to install Workshare Compare on a single workstation.
- **Uninstalling Workshare Compare**, page 25, describes how to uninstall Workshare Compare.
- **Licensing**, page 25, describes how to license Workshare Compare.

The procedure for installing Workshare Compare across a network is described in *Chapter 5: Network Deployment*.

### Installing Workshare Compare

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The following procedure explains how to install Workshare Compare on a single workstation. Before beginning the installation procedure, make sure that all other programs are closed and disable any anti-virus software.

The installation of Workshare Compare installs the following:

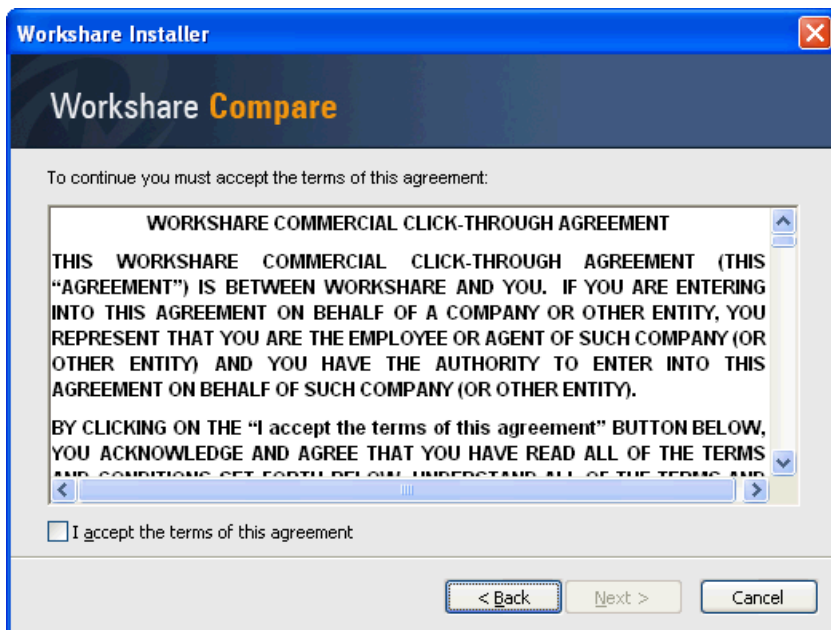
- Workshare Compare Client
- Workshare PDF Converter Version 5.1.168

**To install Workshare Compare:**

1. Double-click **WorkshareCompare-9800.XXX.exe** (where XXX is the build number).The Workshare Installer is displayed.

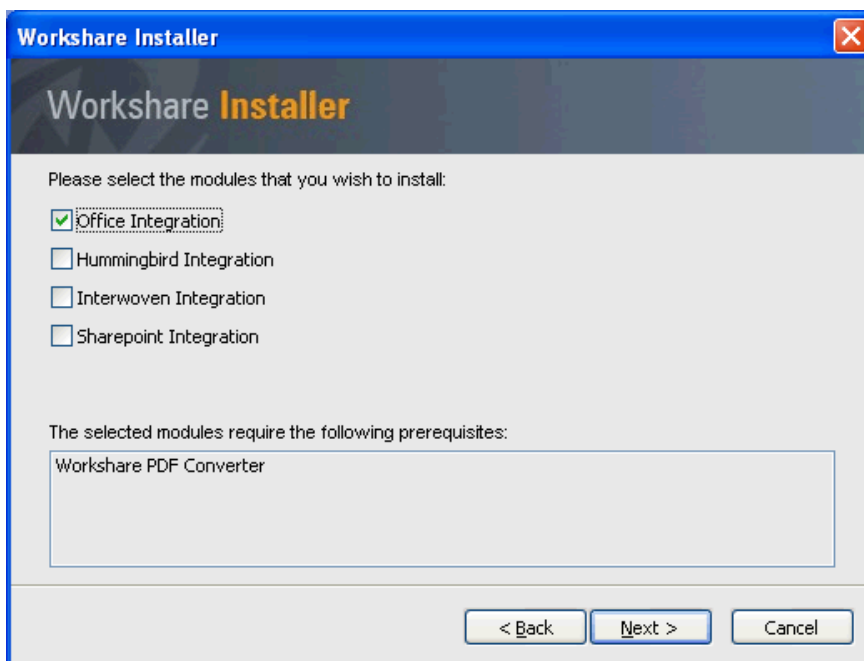


2. Click **Next**. The License Agreement screen is displayed.



3. Read the agreement and select the **I accept the terms of this agreement** checkbox.

4. Click **Next**.



5. Select from the following as required:

**Office Integration:** Integrates Workshare Compare within Microsoft Office.

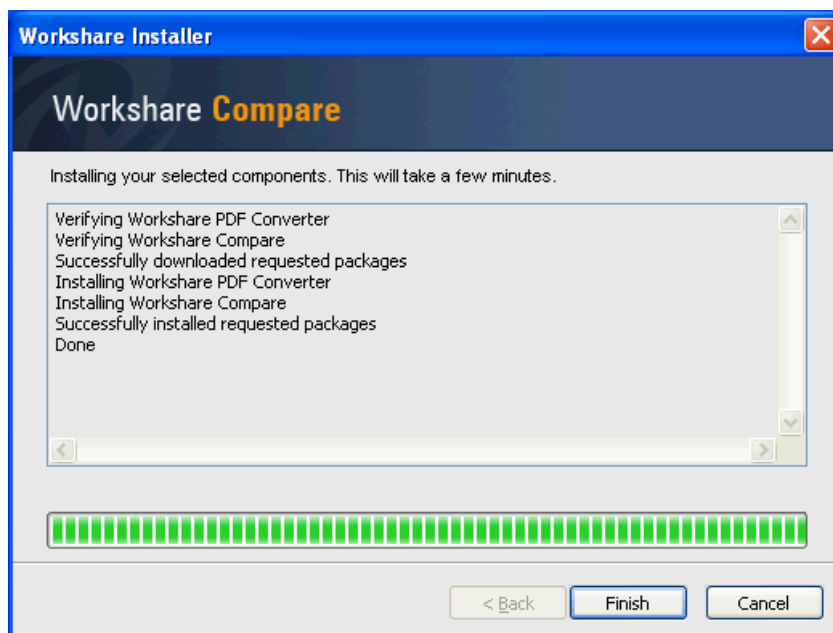
**Hummingbird Integration:** Integrates Workshare Compare within a Hummingbird DMS.

**Interwoven Integration:** Integrates Workshare Compare within an Interwoven DMS.

**SharePoint Integration:** Integrates Workshare Compare within SharePoint.

6. Click **Next**. Workshare Compare creates the necessary folders and copy files.

The installation process may take a few minutes. A progress bar indicates the progress of the installation.



7. After this process is completed, click **Finish**. This completes the installation of Workshare Compare. You are now able to start using Workshare Compare. For a full description of the Workshare Compare functionality, refer to the *Workshare Compare User Guide*.

If required, you can now configure Workshare Compare (described in *Chapter 3: Configuration*) or deploy Workshare Compare across your network (described in *Chapter 5: Network Deployment*).

## Uninstalling Workshare Compare

Workshare PDF Converter and Workshare Compare should be uninstalled using the **Add or Remove Programs** option in the Control Panel. Uninstalling Workshare PDF Converter and Workshare Compare will uninstall all the Workshare elements installed during the installation process.

**Note:** The uninstall process will not uninstall any prerequisites installed.

## Licensing Workshare Compare

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This section describes how to license Workshare Compare using a license file or an authorization code. It also describes how to renew a term license.

### Licensing Using License Files

A license file is a file with a LIC extension. You can license Workshare Compare using the license file in either of the following ways:

- Copy the license file into the **Modules** folder of the Workshare Compare installation directory on a Workshare Compare workstation, for example, using copy/paste functions or a login script.
- Run the Workshare Configuration Assistant from a command line (described in *Re-Running the WCA*, page 17) and specify the LICFILE parameter.

### Licensing Using Authorization Codes

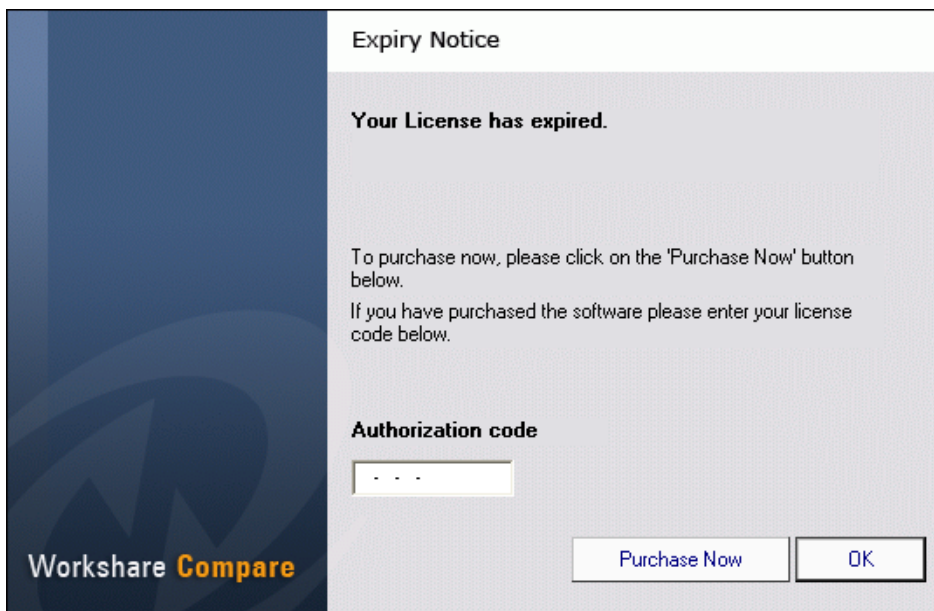
License authorization codes consist of 12 numeric characters broken down into four groups of three, which are split by a dash or '-', for example '012-345-678-910'. Typically, an organization would use one authorization code to license all its users.

You specify the authorization code after installation upon launch of a Microsoft Office application. You can also license Workshare Compare using the authorization code in either of the following ways:

- From the Workshare Configuration Manager, page 28
- Using WmLicGen.exe, page 28

### To license Workshare Compare:

1. After installation, launch a Microsoft Office application, for example, Microsoft Word. A reminder screen is displayed, such as the following:



2. Enter your authorization code.

In order for license authorization codes to be validated, each client workstation requires an Internet connection. If the user is connecting to the Internet using a proxy server, Workshare Compare will use the proxy server settings from Internet Explorer by default. In addition, it is possible to manually specify the proxy server details if they are not set in Internet Explorer. When a license authorization code is submitted, it is validated by the Workshare Licensing Authorization Server and a license is written to the **Modules** folder of the Workshare Compare installation directory.

**Note:** The workstation name is recorded on the Workshare Licensing Authorization Server. No other details are recorded.

It is possible to check connectivity to the Workshare Licensing Authorization Server in two ways:

- In an Internet browser session, enter `http://las.workshare.com/CheckConnection` in the address line. (Note that the text is case sensitive.) If the connection is successful, the message "You have successfully contacted the Workshare Licensing Authorization Server for external clients (Port 80)" is received.
- From the command line, ping the Workshare Licensing Authorization Server. Enter "**ping las.workshare.com**". If the connection is successful, a reply is received from the Workshare Licensing Authorization Server.

Once the license is validated, Workshare Compare will create a license file (with a LIC extension) and place it in the **Modules** folder of the Workshare Compare installation directory. In order for Workshare Compare to create a valid license file, the logged on user requires read/write access to the **Modules** folder.

## Licensing from the Workshare Configuration Manager

If you are licensing Workshare Compare after installation and you are using an authorization code, you can license Workshare Compare using the Workshare Configuration Manager.

### To license Workshare Compare from the Workshare Configuration Manager:

1. From the *Workshare* menu in Microsoft Word, select **Options** (MS Office 2003/XP) or click **Options** in the *Workshare* tab, **Options** group (MS Office 2007). The Options page is displayed in the Workshare Panel.
2. Click **Workshare Application Configuration**. The Workshare Configuration Manager is displayed.
3. Select the Registration category in the left pane.
4. Click Get License in the right pane. The License Authorization Code dialog is displayed.
5. Enter your authorization code and click OK.
6. Click **OK** in the Workshare Configuration Manager.

## Licensing Workshare Compare Using WmLicGen.exe

If you are licensing Workshare Compare after installation and you are using an authorization code, you can license Workshare Compare using a command line utility called WmLicGen.exe.

WmLicGen.exe is located in the **Modules** folder of the Workshare Compare installation directory. This executable can be run individually on each workstation or can be deployed to run on multiple workstations, for example, as part of login script.

### To license Workshare Compare using the WmLicGen.exe method, the following syntax should be used:

```
WmLicGen.exe /GET XXX-XXX-XXX-XXX
```

Where XXX-XXX-XXX-XXX is your authorization code.

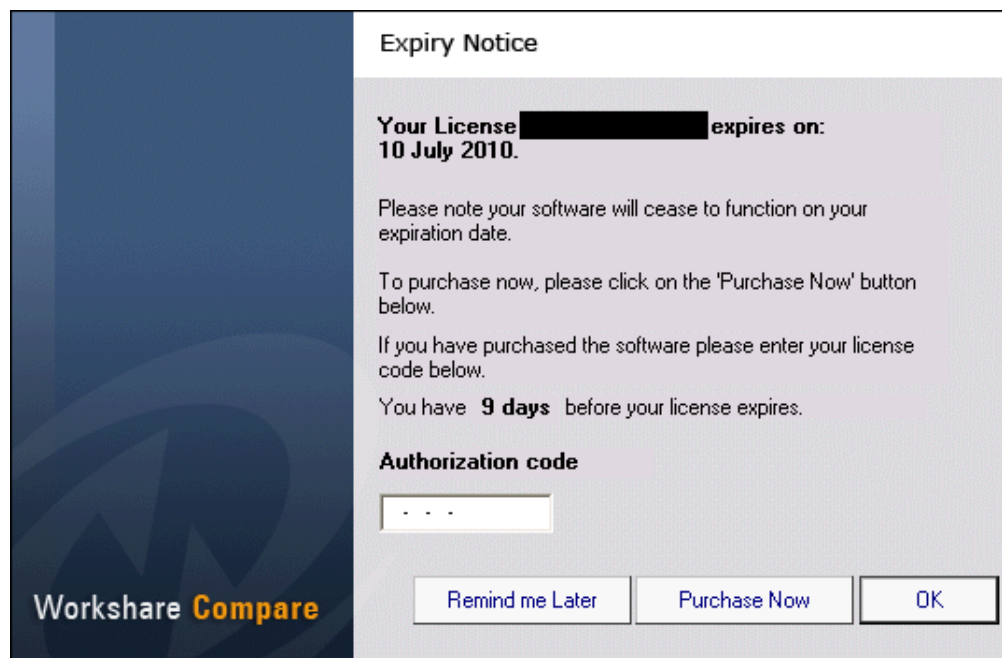
The switches available are as follows:

| Switch                           | Value   |
|----------------------------------|---|
| <b>No switches</b>               | Lists all licenses on system.   |
| <b>?</b>                         | Displays help.  |
| <b>Get &lt;Auth Code&gt;</b>     | Gets the license specified by Auth Code.  |
| <b>Release &lt;Auth Code&gt;</b> | Releases the license specified by Auth Code.  |
| <b>Renew &lt;Auth Code&gt;</b>   | Renews the license specified by Auth Code.  |
| <b>Release_All</b>               | Releases all licenses with authorization codes.   |
| <b>Renew_All</b>                 | Renews all licenses with authorization codes.   |
| <b>PORT=X</b>                    | Specifies the proxy server port number for HTTP traffic (where X is the port number).       |
| <b>ADDRESS=X</b>                 | Specifies the proxy server address (where X is the name or IP address of the proxy server). |

**Note:** When working with a proxy server, you must specify both the *PORT* and *ADDRESS* switches.

## Renewing a Subscription License

One month before your subscription license expires, you can choose to receive a popup notice on a daily basis.



Proceed in any of the following ways:

- Enter your new or renewed authorization code and click **OK**. Your license is updated and the Expiry Notice is not displayed again.
- Click **OK**. The Expiry Notice will be displayed again on the following day.
- Click **Remind me Later**. The Expiry Notice will be displayed again in 7 days and every 7 days until 7 days before the expiration date when it will be displayed on a daily basis.
- Click **Purchase Now**. You are directed to the Workshare website where you can purchase a new license.

## Turning Expiry Notice On/Off

You can prevent the Expiry Notice from displaying on a machine if you do not want users to view the popup. It is recommended that Administrator machines do display the popup to alert for expiring licenses. In the Registry, browse to HKEY\_LOCAL\_MACHINE\Software\Workshare\Framework\Settings and set the **ShowExpiryReminder** key to **0** to disable the Expiry Notice or **1** to enable the Expiry Notice.

**Note:** By default, when there is no DMS integration and the install is not silent, this key is set to **1** and the Expiry Notice is displayed. When the installation includes a DMS integration and/or is Silent, the key is set to **0** and the Expiry Notice is not displayed.

## Purchasing New Licenses

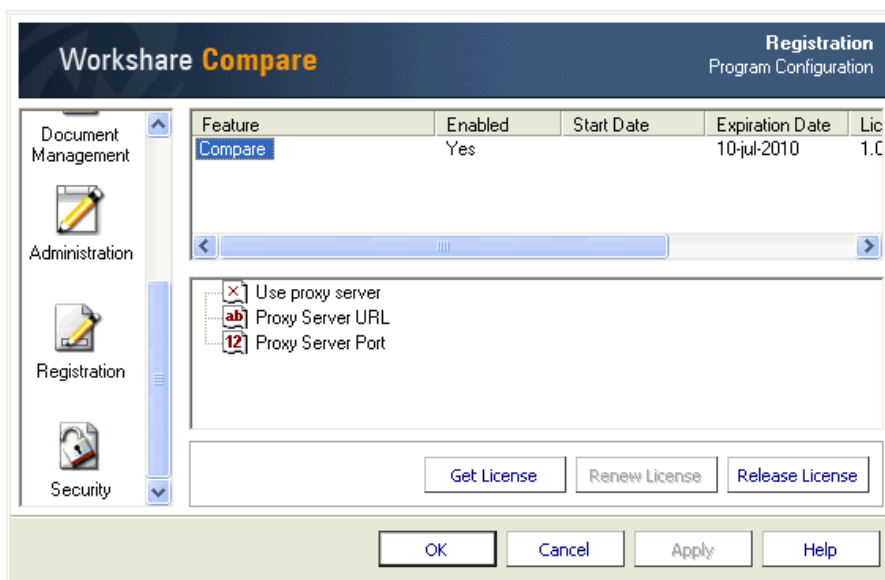
Visit the Workshare website for ways to purchase a new license. If you have a license (LIC) file, relicense Workshare Compare using the methods described in *Licensing Using License Files*, page 26. You will need to replace any existing license files with the updated one. If you purchase an authorization code (you may be given a new code or advised that your existing code has been updated to reflect the new subscription period), relicense Workshare Compare by entering the code into the Expiry Notice dialog or by using WmLicGen to release and get a license (described in *Licensing Workshare Compare Using WmLicGen.exe*, page 28) or by using the method below.

## Renewing a License on a Single Machine

This procedure involves releasing the existing expired (or about to expire) license and getting the new license. It **MUST** be performed even if your authorization code has not changed.

### To renew your license:

1. From the *Workshare* menu in Microsoft Word, select **Options** (MS Office 2003/XP) or click **Options** in the *Workshare* tab, **Options** group (MS Office 2007). The Options page is displayed in the Workshare Panel.
2. Click **Workshare Application Configuration**. The Workshare Configuration Manager is displayed.
3. Select the **Registration** category in the left pane.
4. In the upper area of the right pane, select **Compare**.



5. Click **Release License** in the right pane. A message is displayed warning you that the license for all features will be released. Click **Yes** to continue. The license is released and no features are listed in the upper area of the right pane.
6. Click **Get License** in the right pane. The *License Authorization Code* dialog is displayed.



7. Enter your new authorization code and click **OK**.
8. Click **OK** in the Workshare Configuration Manager.

## Renewing Licenses across your Network

You can re-license Workshare Compare across your network in either of the following ways:

- Replace an existing expired license file in the install directory (by default, Workshare/Modules) with an updated license file that has been created from the new subscription dates. This can be done as part of a login script.
- Run WmLicGen.exe (a command line utility) on the workstations, for example, as part of login script. WmLicGen.exe is installed as part of the installation and must be run from the installation directory. A sample script is provided below which assumes that you have installed to the default location (%ProgramFiles%\Workshare\Modules).

```
c:  
cd c:\program files\Workshare\Modules  
WmLicGen.exe /renew_all
```

## Chapter 3. Configuration

This chapter describes how to use the Workshare Configuration Manager to configure Workshare Compare. It includes the following sections:

- **Introducing the Workshare Configuration Manager**, below, provides an overview of the Workshare Configuration Manager and how you can use it to customize Workshare Compare behavior to suit your organization's requirements.
- **Accessing the Workshare Configuration Manager**, page 33, describes how to access the Workshare Configuration Manager and its parameters.
- **Creating, Saving and Deploying Configuration Files**, page 34, describes how to save configuration parameters to a configuration file as well as deploy the configuration file to other Workshare Compare workstations.
- **Creating, Saving and Deploying Policy Sets**, page **Error! Bookmark not defined.**, describes how to save policy sets and distribute them to other Workshare Compare workstations.
- **Workshare Compare Configuration Parameters**, page 36, provides a detailed description of all the Workshare Compare configuration parameters.

### Introducing the Workshare Configuration Manager

The Workshare Configuration Manager enables you to configure Workshare Compare and the way it behaves.

When Workshare Compare is installed (without a specified configuration file), it includes default configuration settings in the configuration XML files called **Settings.xml** and **Options.xml**. These XML files are installed at the following location: Documents and Settings/Default User/Application Data/Workshare/Workshare. When a user logs on, the XML files are copied to the user's local folder as follows: Documents and Settings/[Current User]/Application Data/Workshare/Workshare. A user can change the settings in the XML files using the Workshare Configuration Manager.

You (the administrator) can use the Workshare Configuration Manager to establish a global set of Workshare Compare parameters that can be used to standardize the use of Workshare Compare across your organization. This is achieved by storing all the Workshare Compare settings in a configuration file. This can be called anything as long as it has an .ini extension and is placed in the **Config** folder of the Workshare Compare installation directory on the Workshare Compare workstations. All the Workshare Compare settings are taken from this file.

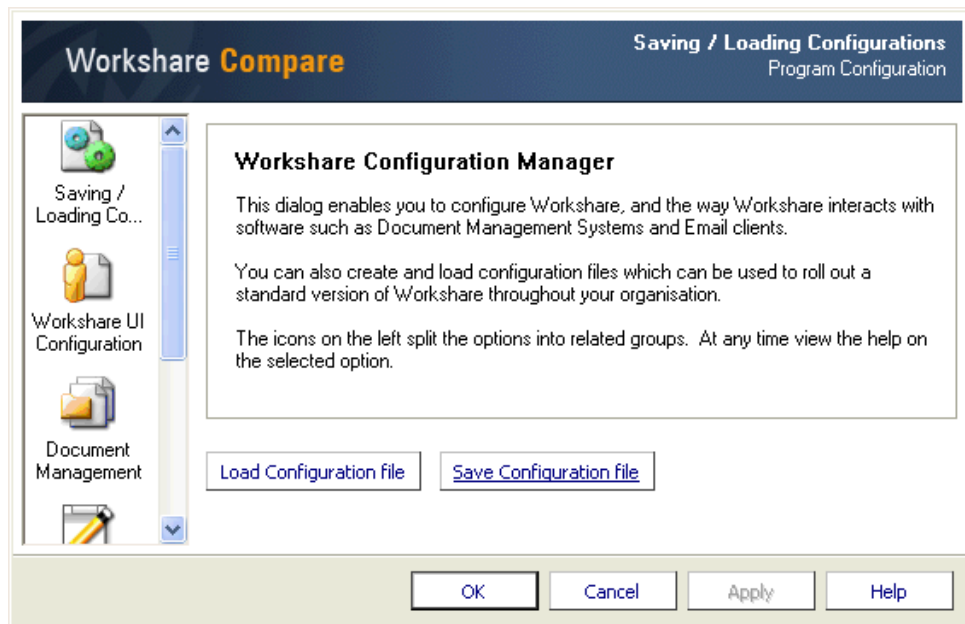
On launch of Microsoft Word, Workshare Compare reads the INI file and loads the settings into the configuration XML files. Workshare Compare will only read the INI file if it has a later time stamp or it is a new INI file. Thus manual changes made by individual users on their workstations can override the settings in the INI file. For this reason, you are advised to consider password-protecting access to the Workshare Configuration Manager.

## Accessing the Workshare Configuration Manager

The Workshare Configuration Manager is accessed from the Options page of the Workshare Panel. You can limit access to the Workshare Configuration Manager by specifying that a password is required in order to access the Workshare Configuration Manager. (**Password protect access to configuration** parameter in the **Administration** category.)

### To access the Workshare Configuration Manager:

1. From the *Workshare* menu in Microsoft Word, select **Options** (MS Office 2003/XP) or click **Options** in the *Workshare* tab, **Options** group (MS Office 2007). The Options page is displayed in the Workshare Panel.
2. Clicking **Workshare Application Configuration** displays the Workshare Configuration Manager as follows:



The configuration parameters for Workshare Compare are grouped into categories. The categories appear in the left pane of the Workshare Configuration Manager. Selecting a category displays the parameters for that category in the right pane of the Workshare Configuration Manager. The different categories and their parameters are described in *Workshare Compare Configuration Parameters*, page 36.

## Creating, Saving and Deploying Configuration Files

Once you have configured Workshare Compare you can save your settings to a configuration (INI) file. This will enable you to restore these settings at some point in the future, or to distribute these settings to other machines without having to manually set the options on each machine.

### Saving Configuration Files

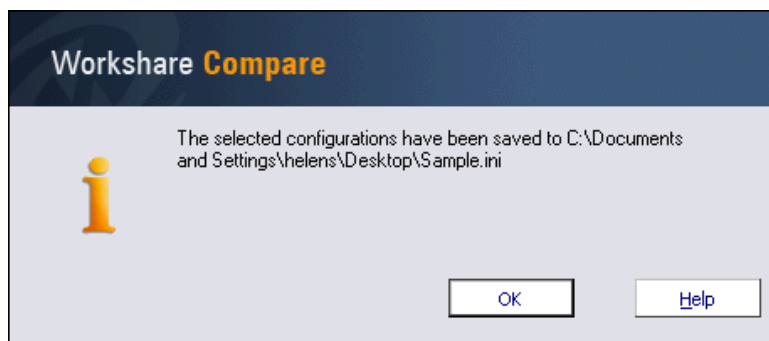
Once you have set the configuration parameters for Workshare Compare in a test installation or on any Workshare Compare workstation, you can save the configuration settings in an INI file and then deploy them to other Workshare Compare workstations. This saves time and enables a consistency within your organization.

#### To save a configuration file:

1. In the Workshare Configuration Manager, configure the Workshare Compare parameters as follows:
  - Click a category in the left pane to display parameters for that category in the right pane.
  - Configure the parameters as required.

Categories and their parameters are described in *Workshare Compare Configuration Parameters*, page 36.

2. Select **Saving/Loading Configurations** in the left pane.
3. Click **Save Configuration file** in the right pane. A *Save As* dialog is displayed.
4. Name the file as required and navigate to the save location. You can use any name but the file must have an .ini extension.
5. Click **Save**. The following confirmation message is displayed:



6. Click **OK**. The configuration settings are saved to the specified INI file.

You can now load this INI file onto other individual Workshare Compare workstations or deploy to multiple machines.

## Deploying Configuration Files

When deploying a configuration file to Workshare Compare workstations, it must be loaded or copied into the **Config** folder of the Workshare Compare installation directory.

Loading a configuration (INI) file to a Workshare Compare workstation results in the INI file being read and the settings written to the configuration XML files.

**Note:** *There must be only one INI file in the **Config** folder at any time to ensure that only the settings in that INI file are used.*

You can deploy or load configuration files in any of the following ways:

- Use the INIFILE parameter to specify the INI file location when either installing Workshare Compare from the command line or installing Workshare Compare using a deployment tool. Refer to *Chapter 5: Network Deployment*.
- Run the WCA from a command line (described in *Re-Running the WCA*, page 17) and specify the INIFILE parameter.
- Copy the configuration file into the **Modules\Config** folder of the Workshare Compare installation directory on a Workshare Compare workstation, for example, using copy/paste functions or a login script.
- Use the **Load Configuration file** button in the Workshare Configuration Manager on an individual Workshare Compare workstation (see procedure below).

## Loading Configuration Files from the Workshare Configuration Manager

Using this procedure, the INI file is **NOT** copied to the **Modules\Config** folder of the Workshare Compare installation directory. On launch of Microsoft Word, Workshare Compare reads the INI file and loads the settings into the configuration XML files. You should therefore restart Workshare Compare or Microsoft Word) after loading a new configuration file to enable the new configuration settings to be applied.

**To load a configuration file from the Workshare Configuration Manager:**

1. In the Workshare Configuration Manager, select **Saving/Loading Configurations** in the left pane.
2. Click **Load Configuration file** in the right pane. The *Open* dialog is displayed.
3. Navigate to the location of the configuration (INI) file that you want to load.
4. Click **Open**.
5. Restart Workshare Compare or Microsoft Word to enable the new configuration settings to take place.

## Workshare Compare Configuration Parameters

The configuration parameters for Workshare Compare are grouped into the following categories:

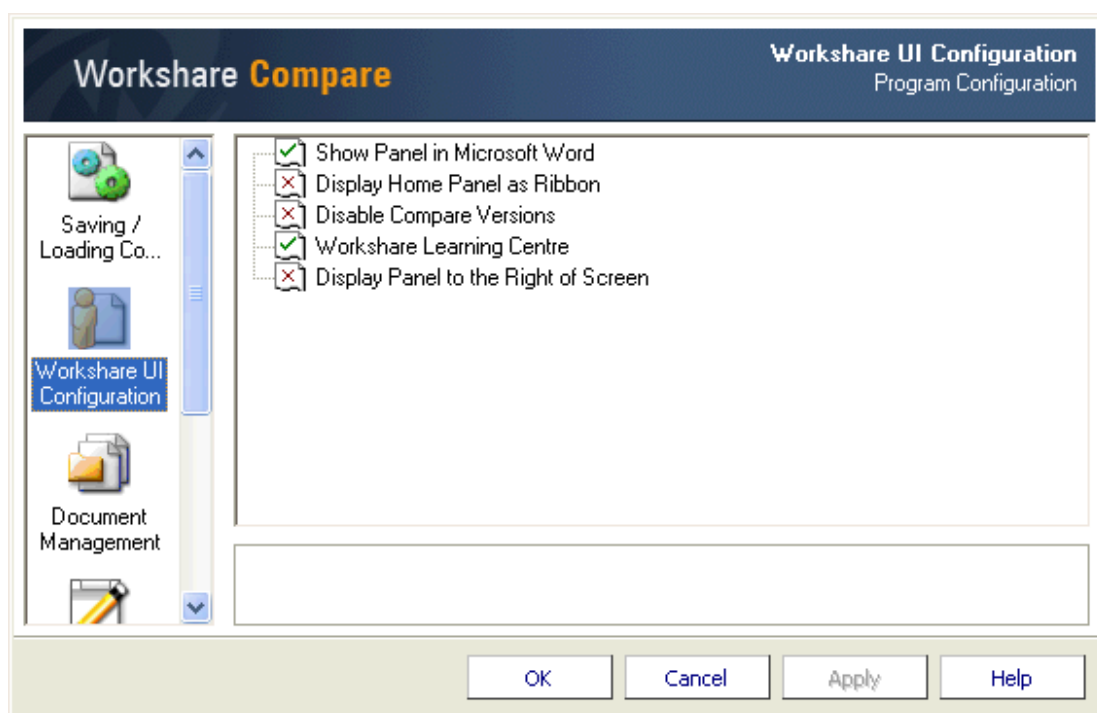
- Workshare UI Configuration, page 36.
- Document Management, page 37.
- Administration, page 37.
- Registration, page 41.
- Security, page 42.

**Note:** You may find that the categories appear in a different order to the one shown here.

The categories appear in the left pane of the Workshare Configuration Manager. Selecting a category displays the parameters for that category in the right pane of the Workshare Configuration Manager. The different categories and their parameters are described in the following sections.

### Workshare UI Configuration

The **Workshare UI Configuration** category includes parameters that enable you to specify how the Workshare user interface is displayed.



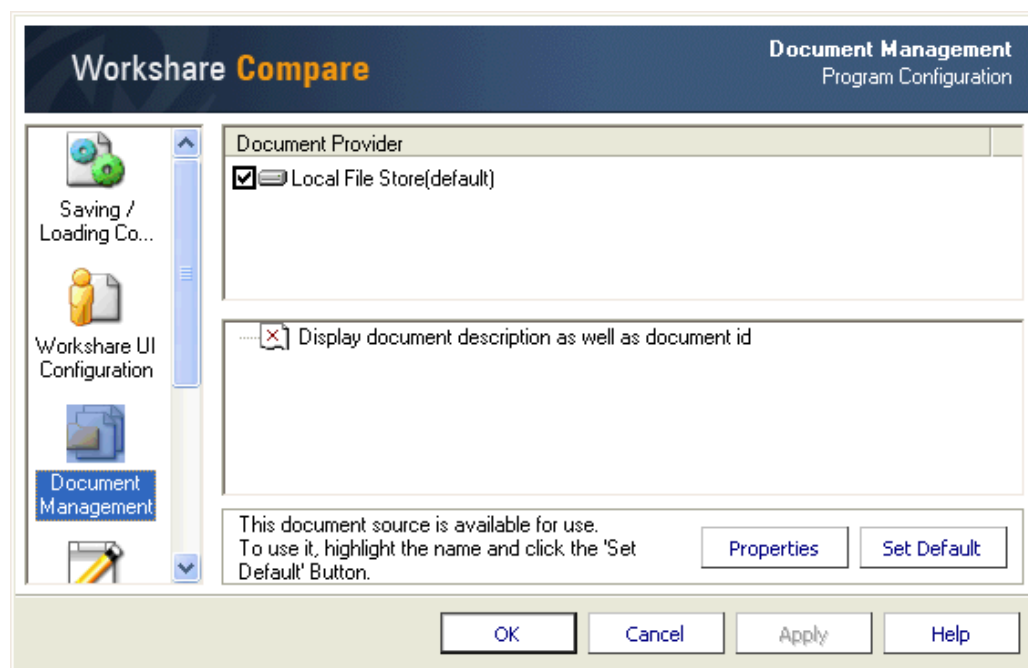
The parameters are displayed in the upper area of the right pane. Selecting a parameter enables you to specify that parameter in the lower area of the right pane.

The Workshare UI Configuration parameters are described in the following table:

| Parameter  | Description  |
|--|--|
| <b>Show Panel in Microsoft Word</b>                          | If selected, the Workshare Panel is displayed down the left side of the Microsoft Word window.   |
| <b>Display Home Panel as Ribbon</b>                          | Microsoft Office 2007 only.<br>If selected, the Workshare tab is added to the Ribbon.  |
| <b>Disable Compare Versions</b>                              | If selected, the <b>Compare Versions</b> option is disabled in the Workshare menu and the <b>Compare</b> option does not appear in the Workshare Panel.  |
| <b>Replace the Workshare Menu with the Workshare toolbar</b> | Microsoft Office 2003/XP only.<br>If selected, the Workshare menu is removed and the items that appear in the menu are replaced with toolbar icons.  |
| <b>Workshare Learning Center</b>                             | If selected, the <b>Workshare Learning Center</b> option is no longer displayed in the Options page of the Workshare Panel.  |
| <b>Display Panel to the Right of Screen</b>                  | If selected, the Workshare Panel is displayed down the right side of the Microsoft Word window.<br><br>When this parameter is changed, you must restart Microsoft Word in order for the change to take effect. |

## Document Management

The **Document Management** category enables you to configure the document provider with which Workshare Compare integrates.



You specify the default document source by selecting a document provider and clicking **Set Default**.

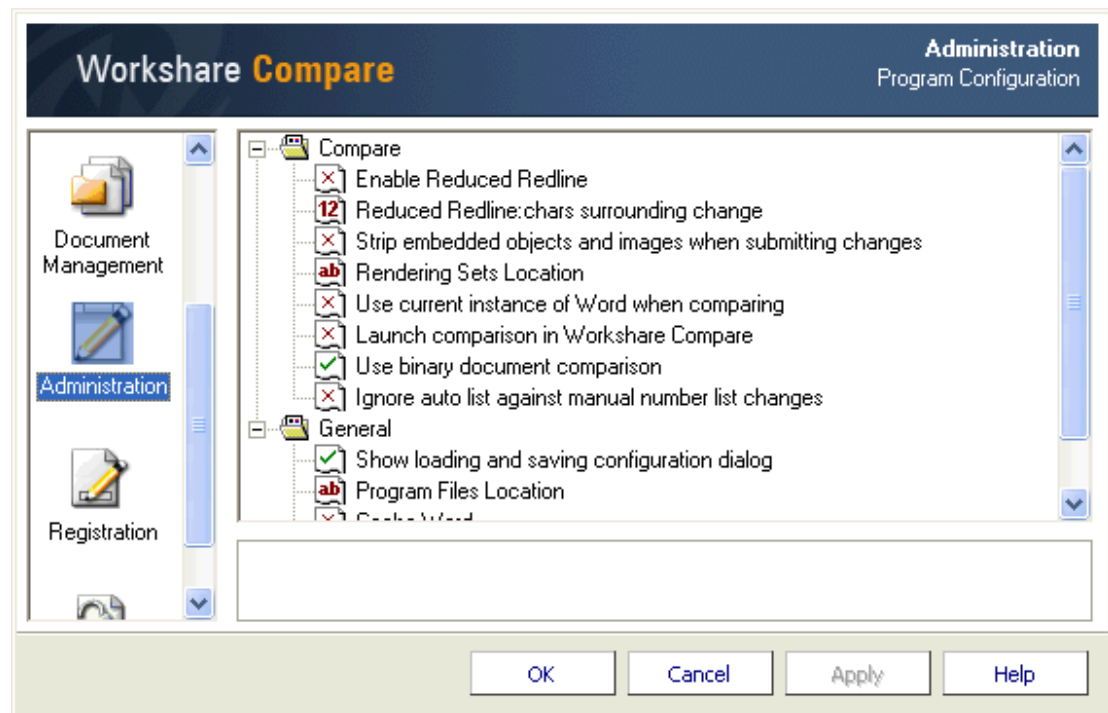
You specify the properties of a document source by selecting a document provider and clicking **Properties**. For DMS users, please refer to the following sections for information on Hummingbird, Interwoven or SharePoint properties and integration: *Document Management Systems Integration, page43*.

The Document Management category includes one parameter – **Display document description as well as document id**. If selected, Workshare Compare displays DMS document descriptions in the Workshare Compare comparison window, where usually it would display document IDs. A DMS document ID is in the form **file://c/mydocument.doc**, whereas the description is more user friendly, for example, **mydocument.doc**. This applies to local file store as well as all other DMS integrations.

Additionally, if selected, the most recently used list displays the more user friendly document description when a user is picking recent documents in a Workshare Compare comparison.

## Administration

The **Administration** category includes parameters that enable you to specify how Workshare Compare functions in specified situations.



The parameters are displayed in the upper area of the right pane. Selecting a parameter enables you to specify that parameter in the lower area of the right pane.

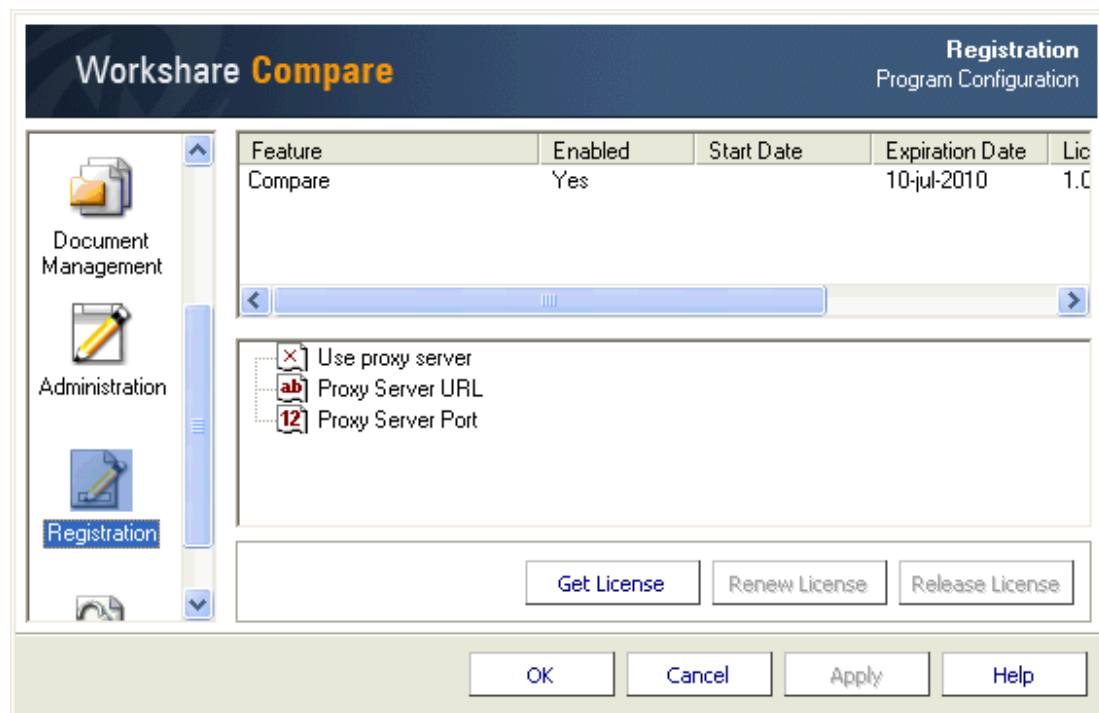
The Administration parameters are further divided into sub-categories and are described in the following table:

| Parameter  | Description  |
|--|--|
| <b>COMPARE</b>   |  |
| <b>Enable Reduced Redline</b>                                    | If selected, Workshare Compare produces a Redline document displaying changes with limited surrounding text.   |
| <b>Reduced Redline: chars surrounding change</b>                 | When a reduced Redline document is produced, this setting defines the number of characters that are displayed surrounding a change. By default, the number of surrounding characters is 200; the minimum number of surrounding characters is 100.  |
| <b>Strip embedded objects and images when submitting changes</b> | If selected, Workshare Compare removes embedded objects (images).  |
| <b>Rendering Sets Location</b>                                   | <p>The directory in which rendering sets are stored.</p> <p>This parameter is automatically set during installation by the WCA, by default the <b>Modules\Rendering</b> folder in the Workshare Compare installation directory.</p> <p><i>Note: When deploying a configuration (INI) file, in order <b>NOT</b> to overwrite the rendering set location determined by the WCA during installation at the target workstations, this parameter should be set with no value.</i></p> |
| <b>Use current instance of Word when comparing</b>               | If selected, then only one instance of Microsoft Word is invoked in memory when comparing. This only applies when the <b>Use binary document comparison</b> parameter is disabled.   |
| <b>Launch comparison in Workshare Compare</b>                    | <p>If selected, comparisons are performed using Workshare Compare and the Workshare Compare <i>Document Selection</i> dialog is shown when either <b>Compare Versions</b> is selected from the <i>Workshare</i> menu or <b>Compare</b> is clicked in the Workshare Panel.</p> <p><i>Note: Interwoven users should not select this parameter as it may cause unexpected results in the comparison.</i></p>  |
| <b>Use binary document comparison</b>                            | <p>This setting describes the method used by Workshare Compare to compare your documents. This setting is enabled by default and is the recommended comparison method.</p> <p>If you are experiencing issues with the document comparison, your Technical Support representative may request that you disable this option. Otherwise, it is not recommended to change this setting.</p>  |
| <b>Ignore auto list against manual number list changes</b>       | <p>If selected, when an automatically formatted list is being compared against a manual list, any changes in the manual list are ignored.</p> <p>Generally this parameter should NOT be selected. It should only be selected in circumstances when one of the documents being compared contains automatic list numbering and the other document contains manual list numbering.</p>  |

| Parameter   | Description  |
|---|--|
| <b>GENERAL</b>                                      |  |
| <b>Show loading and saving configuration dialog</b> | If selected, the loading and saving configuration options in the Workshare Configuration Manager are available to the user.  |
| <b>Program Files Location</b>                       | Displays (read-only) the directory in which Workshare Compare is installed.  |
| <b>Cache Word</b>                                   | <p>If selected, an instance of Microsoft Word is kept in memory when Workshare Compare is in use. This can save time when performing certain operations.</p> <p>If not selected, an instance of Microsoft Word is started and stopped on demand.</p> <div style="border: 1px solid #add8e6; padding: 5px; margin: 10px 0;"> <p><b>Note:</b> When Microsoft Word starts up invisibly (when <b>Cache Word</b> is selected), it does not initialize its add-ins. If the user then does something to make the instance of Microsoft Word visible (for example, initiates editing a document) then the user will be working with no add-ins initialized.</p> </div> <p>This parameter is NOT selected by default.</p> |
| <b>Password protect access to configuration</b>     | The password required for accessing the Workshare Configuration Manager. For extra security, you can password-protect the Workshare Configuration Manager.   |

## Registration

The **Registration** category includes parameters that enable you to specify proxy server settings and update and release licenses.



In the upper area of the right pane, license information is displayed. The parameters are displayed in the middle area of the right pane. Selecting a parameter enables you to specify that parameter in the lower area of the right pane.

The Registration parameters are described in the following table:

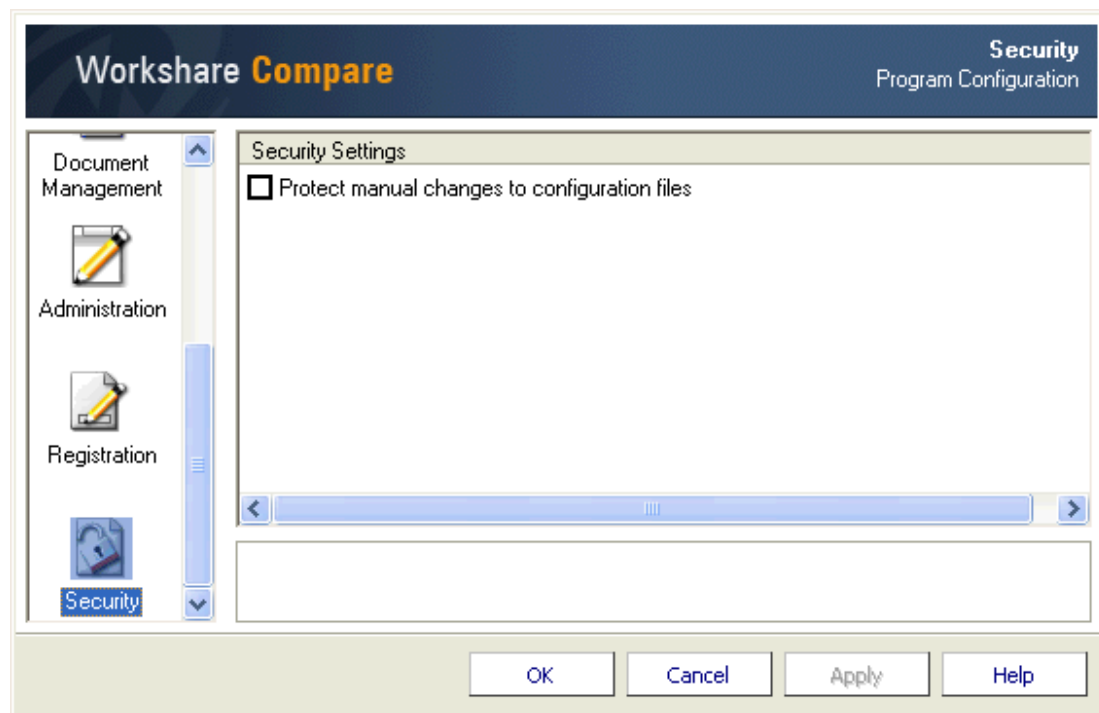
| Parameter                | Description  |
|--------------------------|--|
| <b>Use proxy server</b>  | If selected, enables the use of an Internet proxy server to connect to the Workshare Licensing Authorization Server. |
| <b>Proxy Server URL</b>  | The URL of an Internet proxy server (if used).   |
| <b>Proxy Server Port</b> | The port of an Internet proxy server (if used).  |

The buttons in the right pane are as follows:

| Parameter              | Description   |
|------------------------|---|
| <b>Get License</b>     | Enables you to enter a Workshare Compare license authorization code. This is then validated by the Workshare Licensing Authorization Server via the Internet. |
| <b>Renew License</b>   | This feature is disabled.   |
| <b>Release License</b> | Removes the license from this workstation.  |

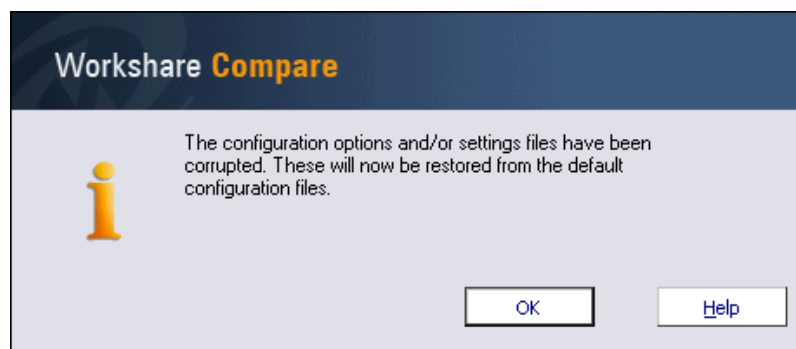
## Security

The **Security** category includes one parameter that enables you to protect the configuration from a user manually changing the configuration files.



The XML configuration files (**Settings.xml** and **Options.xml**) store the settings and options that have been configured from the Configuration Manager. These files are stored in C:\Documents and Settings\{USER}\Application Data\Workshare\Workshare\ (where {USER} represents "All Users", "Default User" and the username of the user currently logged on).

If the **Protect manual changes to configuration files** parameter is selected and a user manually changes one of the XML configuration files, the following message is displayed when the user opens Microsoft Word.



When you click **OK**, Workshare Compare will restore the default configuration files and therefore override any changes made by the user manually changing the configuration files.

## Chapter 4. Integration

This chapter describes how to integrate Workshare Compare with your DMS and the Workshare OCR Server. It includes the following sections:

- **Document Management Systems Integration**, below, describes how to integrate Workshare Compare with your Interwoven, Hummingbird or SharePoint DMS.
- **Workshare OCR Server Integration**, page 64, describes how to configure the Workshare OCR Server to accept requests from Workshare Compare clients.

### Document Management Systems Integration

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#### Interwoven Integration – Server Integration

In order to use Workshare Compare with an Interwoven DMS, you must add the Workshare Compare file types and the Workshare Compare application to the Interwoven server so that the DMS can recognize and work with Workshare Compare files. Additionally, it is necessary to add Workshare Compare as an Interwoven class.

#### Adding File Types to the Interwoven Server

This step includes adding the Workshare Compare file type (WDF) and, if it is not already added, the Microsoft Word file type (DOC) to the Interwoven server.

**Note:** This must be done for all Interwoven databases, regardless of whether the user has permissions to a database or not.

#### To add file types to the Interwoven server:

1. In the Interwoven Database Management window, expand the tree on the left underneath the database to be integrated with Workshare Compare and select **Type**. A list of file types recognized by Interwoven is displayed on the right side of the window.
2. From the *Manage* menu, select **Add**. The *Add Type* dialog is displayed.

3. Complete the fields as shown below and click **OK**.

The screenshot shows a dialog box titled "Add Type". It contains a section labeled "Type Information" with the following fields:

- Description: Workshare DeltaFile
- Alias: WDF
- DMS Extension: %v
- App. Extension: WDF

At the bottom of the dialog are three buttons: "OK", "Cancel", and "Help".

4. Ensure that the Microsoft Word file type (DOC) appears in the list of recognized file types. If it does not, complete the above steps to add it.

## Adding the Workshare Compare Application to the Interwoven Server

This step includes specifying the location of the Workshare Compare executable file as well as identifying the file types used by Workshare Compare. This is done for each Interwoven database that will be used with Workshare Compare.

### To add the Workshare Compare application to the Interwoven Server:

1. From the Start menu on the Interwoven server, select **Programs** then **Interwoven Server** and then **Database Administration**. The *Interwoven Database Management* window is displayed.
2. Expand the tree on the left underneath the database to be integrated with Workshare Compare and click **App Setup**. A list of applications set up to work with Interwoven is displayed on the right side of the window.
3. From the *Manage* menu, select **Add**. The *Add App Setup Entry* dialog is displayed.

4. Complete the fields as shown below:

**Note:** Ensure the path points to the location of the Workshare Compare executable file. By default, this is **C:\Program Files\Workshare\Modules\DeltaVw.exe**.

5. Click **OK**.

## Interwoven Integration - Client Integration

There are several configuration procedures you may want to perform on an Interwoven client when integrating with Workshare Compare, as follows:

- Launching applications within Interwoven, page 45.
- Creating a Workshare Compare icon on the Interwoven desktop, page 46.

### Launching Applications Within Interwoven

This procedure is only relevant when the Interwoven server application location is different from your Local Application locations. Interwoven would first use the local location of Workshare Compare before using the server location.

To launch Workshare Compare, Microsoft Word and Rich Text Format files from Interwoven you have to add application information to Local Applications settings.

**To add application information to Local Applications settings:**

1. Open Interwoven
2. From the *Options* menu, select **Local Applications**. The *Application Setup Information* dialog is displayed.
3. Click the **Add** button. The *Add Local Application* dialog is displayed.
4. Complete the fields as shown below:

The screenshot shows the 'Add Local Application' dialog box with the following details:

- Name:** Workshare Compare (with an 'Import...' button)
- Path:** program files\workshare\modules\deltavw.exe (with a 'Browse...' button)
- Type:** \WDF (with a 'Select Type...' button)
- Primary Application
- Integration Mode:** Non-Integrated (dropdown menu)
- DDE
- DDE Name:** (empty text box)
- DDE Topic:** (empty text box)
- Open:** (empty text box)
- Open Read Only:** (empty text box)
- Print:** (empty text box)
- Print and Exit App:** (empty text box)
- Buttons at the bottom: OK, Cancel, Help

5. Click **OK** to save the changes.

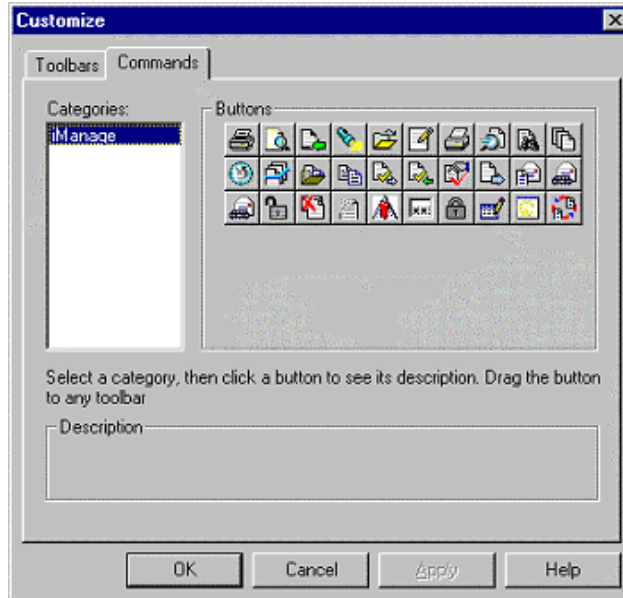
## Creating a Workshare Compare Icon on the Interwoven Desktop

In order to launch Workshare Compare via an icon within your Interwoven desktop, follow the procedure below.

**To create a Workshare Compare icon:**

1. Open Interwoven.
2. Right-click the toolbar and select **Customize**. The *Customize* dialog is displayed.

3. Select the **Commands** tab.



4. Click and drag the **Workshare Compare** icon to the Interwoven toolbar. The Workshare Compare icon now appears on the Interwoven toolbar.

## Interwoven Integration - Configuring Interwoven Server Details

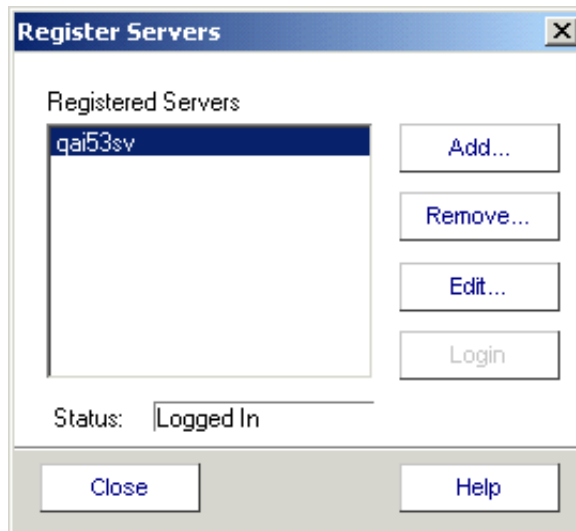
On installation, Workshare Compare automatically copies the Interwoven server settings specified for the Interwoven client. On future startups, Workshare Compare again retrieves the Interwoven server settings using the **userinit** command line switch.

If you do not use Interwoven trusted login (so that each user has a unique user name and password to access the Interwoven server), you must register your Interwoven server from the Workshare Configuration Manager.

### To specify/modify Interwoven server settings:

1. In the Workshare Configuration Manager, select the **Document Management** category in the left pane.
2. In the right pane, select your Interwoven DMS and click **Properties**. The *Interwoven Properties* dialog is displayed.

3. Select the **Servers** tab and click **Register/UnRegister**. The *Register Servers* dialog is displayed.



4. To add details of a new server, click **Add**. The *Login to Interwoven Server* dialog is displayed.



5. In the **Server** field, enter the name of your DMS server.
6. Select the **Automatically login at startup** checkbox to automatically connect to the server and authenticate the user at startup. If you do not select this checkbox, the server can be registered but will not be authenticated at startup. This may be useful in a multi-server environment when you want to save the overhead of authenticating all the servers at startup.

**Note:** If a document ID is passed to a Workshare product for a document on a server for which it has details (a registered server) but to which it is not connected, then the Workshare product will automatically connect to that referenced server.

7. In the **Login Information** area, enter the user login details that enable login to the specified server in the **User** and **Password** fields. If you connect to your Interwoven server using your Windows account, select the **Use Trusted Login** checkbox only.

8. Click **OK**. The specified server is added to the list of registered servers in the *Register Servers* dialog.
9. To modify details of an existing server, select the server in the list of registered servers and click **Edit**. The *Login to Interwoven Server* dialog is displayed.
10. Modify the fields as required.
11. Click **OK**. The modified server is saved and the *Register Servers* dialog is displayed.
12. Click **Close** to close the *Register Servers* dialog and then click **OK** to close the *Interwoven Properties* dialog.

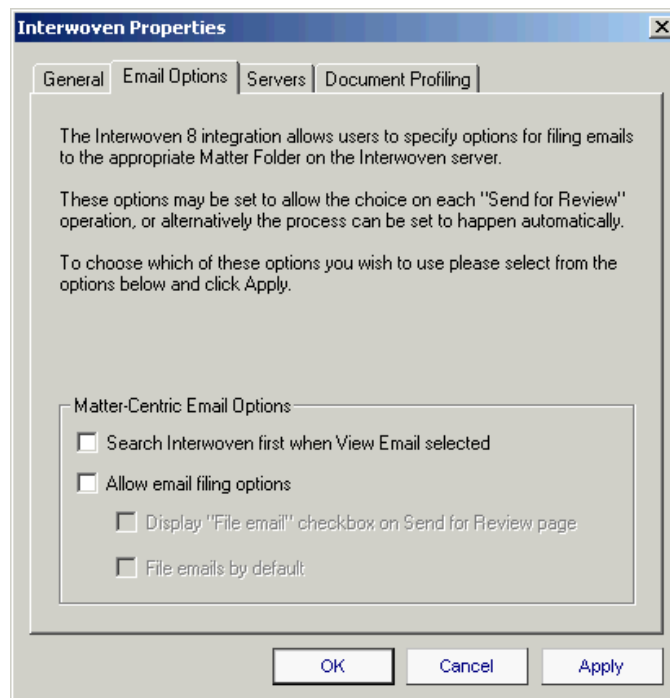
You can copy any changes to server settings to Workshare using the CONFIGUREDMSONLY switch for the Workshare Configuration Assistant. Refer to *Workshare Configuration Assistant*, page 17, for more information.

## Interwoven Integration - Configuring Interwoven 8 Email Filing Options

When working with an Interwoven 8 DMS, Workshare Compare can automatically file the email generated when sending a document for review in the appropriate Matter workspace. In order for this functionality to be available, you must select the **Allow email filing options** checkbox in the *Interwoven Properties* dialog.

### To specify filing options:

1. In the Workshare Configuration Manager, select the **Document Management** category in the left pane.
2. In the right pane, select your Interwoven 8 DMS and click **Properties**. The *Interwoven Properties* dialog is displayed.
3. Select the **Email Options** tab.



4. Select the **Search Interwoven first when View Email selected** checkbox so that when users select **View Email** from the Actions menu on the Manage Changes page, Workshare Compare first searches for the email in Interwoven and then in Exchange. If this checkbox is not selected, Workshare Compare first searches for the email in Exchange and then in Interwoven.
5. Select the **Allow email filing options** checkbox to enable Workshare Compare to automatically file the email generated when sending a document for review.
6. If required, select the **Display "File email" checkbox on Send for Review page** checkbox. By selecting this option, Interwoven 8 users will have a **Select Email Settings** area in the Send Draft for Review page from where they can select to file the email generated when sending a document for review in the appropriate Matter workspace.
7. If required, select the **File emails by default** checkbox. By selecting this option, the **File Email on Send** checkbox in the **Select Email Settings** area of the Send Draft for Review page is selected by default.
8. Click **OK** to save your settings.

## Hummingbird Integration – DOCS Open and DM5

In order to use Workshare Compare with a Hummingbird DMS, you must add the Workshare Compare file type and identify Workshare Compare as an application in the DMS server so that the DMS can recognize and work with Workshare Compare files. Additionally, the Workshare Compare, Workshare Compare and the Microsoft Word applications must be made 'compatible' with the Hummingbird DMS.

*Note: The Hummingbird server integration procedures only need to be performed once per Hummingbird server. The procedures can be performed from the server or client machine.*

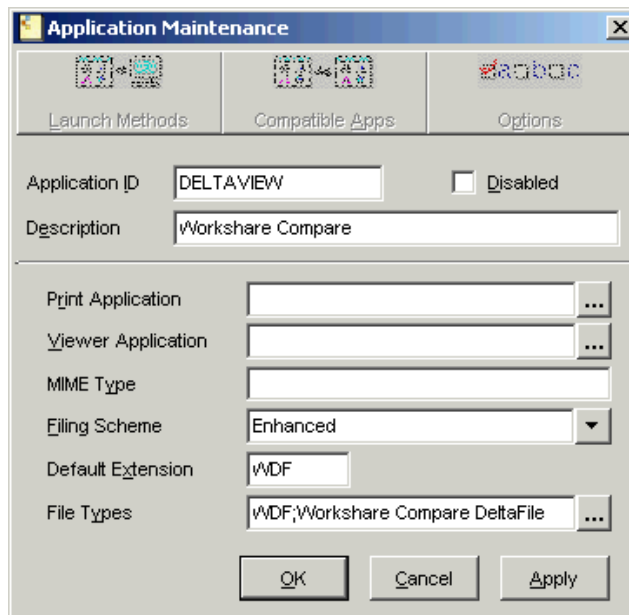
The configuration for DOCS Open and DM5 is very similar. The configuration for DM6 is performed using a Web interface and is described on page 54.

### Adding Application and File Types to the DOCS Open/DM5 Server

This step includes identifying the file types used by Workshare Compare as well as specifying the location of the Workshare Compare executable file. The procedure described below is performed from the DOCS Open/DM5 client machine.

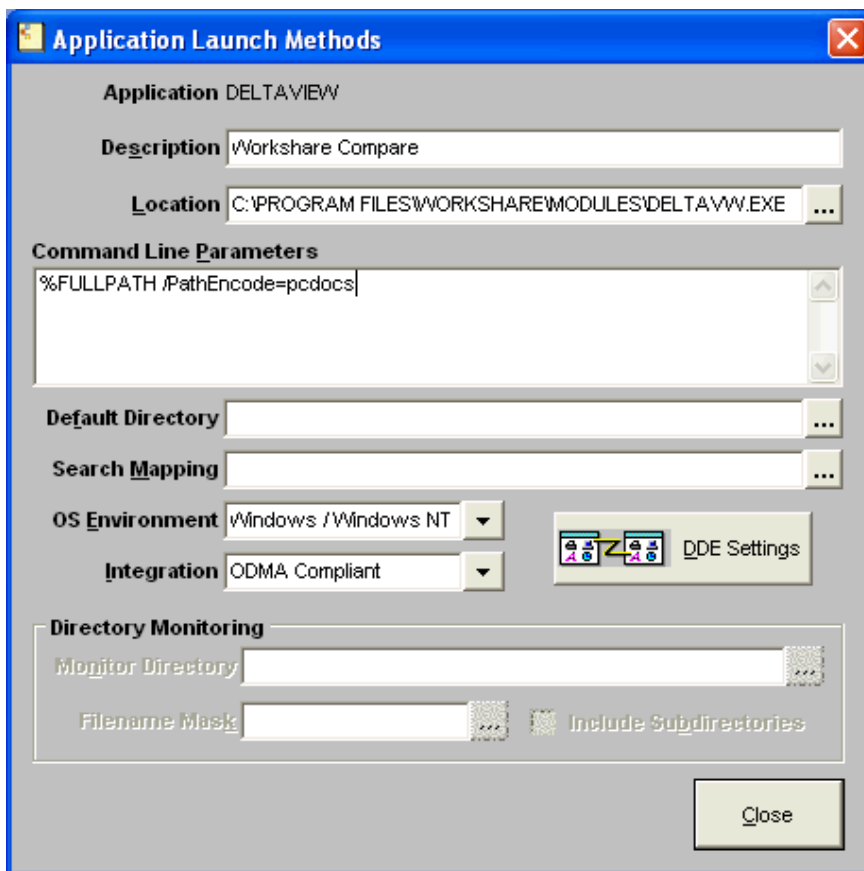
#### To add application and file types to the DOCSOpen/DM5 server:

1. From the Start menu, select **Programs** then **DOCS Open Admin** or **DM5 Admin** and then **Library Maintenance**. The *Library Maintenance* window is displayed.
2. Double-click **Applications**. The *Application Maintenance Select* dialog is displayed showing a list of applications set up to work with DOCS Open/DOCS Fusion.
3. Click **New**. The *Application Maintenance* dialog is displayed.
4. Complete the fields as shown below:



**Note:** To add the file type, click the browse button and click **Add** in the dialog displayed. Enter **WDF** in the **Extension** field and **Workshare Deltafile** in the **Description** field and click **OK** and then **OK** again.

5. Click **OK**. DeltaView now appears in the list of applications.
6. Double-click the new **DeltaView** entry to display the *Application Maintenance* dialog again.
7. Click the **Launch Methods** button. The *Application Launch Methods Select* dialog is displayed.
8. Click the **New** button. The *Application Launch Methods* dialog is displayed.



**Note:** If you already have Workshare DeltaView 2.9 or earlier configured, you should create a separate launch method for Workshare Compare.

9. In the **Location** field, enter the location of the Workshare Compare executable file. By default, this is **C:\Program Files\Workshare\Modules\DeltaVw.exe**.
10. In the **Command Line Parameters** field, enter the following:
  - For DOCS Open integration, %FULLPATH /PathEncode=pcdocs.
  - For DM5 integration, %FULLPATH /PathEncode=powerDOCS.

**Note:** Do not forget to enter a space between FULLPATH and the forward slash.

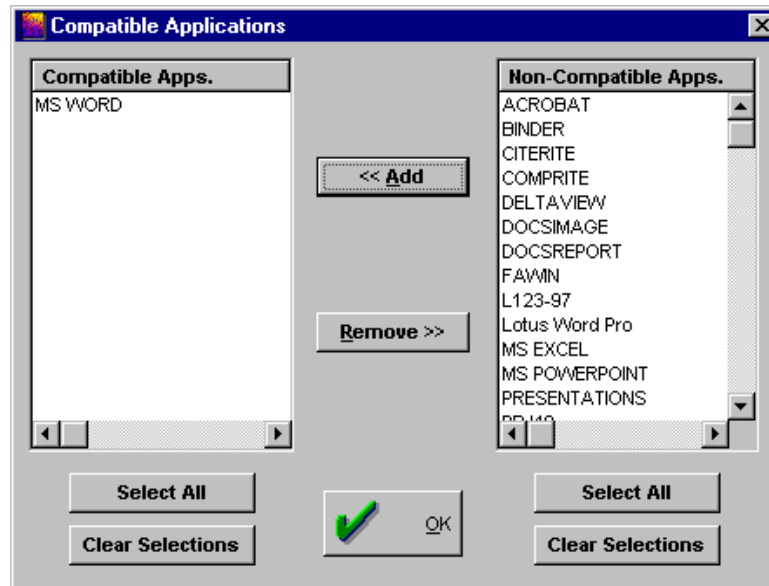
11. From the **Integration** dropdown list, select **ODMA Compliant**.
12. Click **OK**, and then **Close**.

## Making Workshare Compare Compatible with DOCS Open/DM5

In order for files created in Workshare Compare to be retrieved from DOCS Open and DM5, Workshare Compare, Microsoft Word and Workshare Compare must be made "compatible applications" with DOCS Open and DM5.

**To make Microsoft Word a compatible application:**

1. In the *Application Maintenance Select* dialog, double-click **DeltaView**.
2. Click **Compatible Apps**. The *Compatible Applications* dialog is displayed.
3. From the **Non-Compatible Apps** list, select **MS Word** and click **Add**. Microsoft Word is added to the **Compatible Apps** list.



4. Click **OK**, and then **Close**.

#### To make Workshare Compare a compatible application:

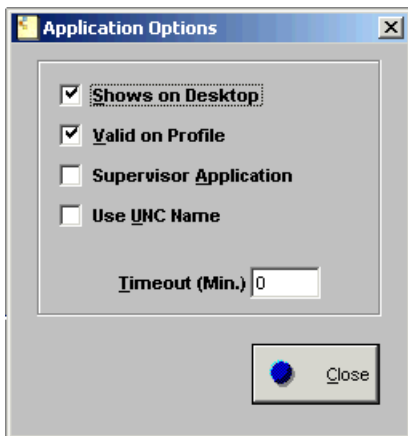
1. In the *Application Maintenance Select* dialog, double-click **MS Word**.
2. Click **Compatible Apps**. The *Compatible Applications* dialog is displayed.
3. From the **Non-Compatible Apps** list, select **Compare** and click **Add**. Workshare Compare is added to the **Compatible Apps** list.
4. Click **OK**, and then **Close**.

## Making the Workshare Compare Icon Appear on the Desktop and Within a User Profile

This section describes how to place the Workshare Compare icon on the DOCS Open/DM5 desktop as well as within a user profile.

#### To add the Workshare Compare icon:

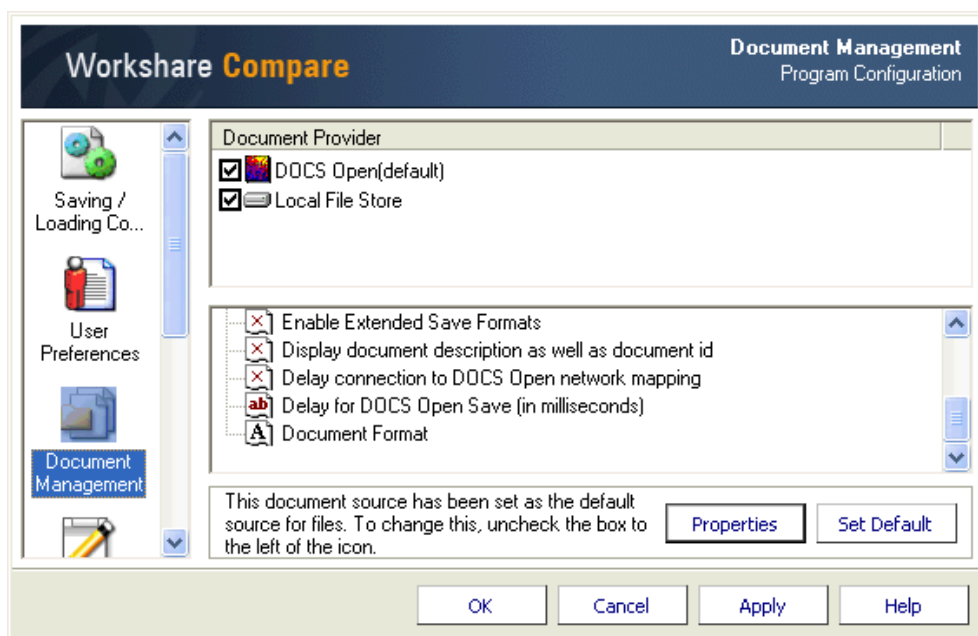
1. In the *Application Maintenance Select* dialog, double-click **DeltaView**.
2. Click **Options**. The *Application Options* dialog is displayed.



3. Check the Shows on Desktop and Valid on Profile checkboxes.
4. Click **Close**.

### Additional Configuration Parameters for DOCS Open Integrations

When Workshare Compare is integrated with a DOCS Open DMS, the following additional configuration parameters are included in the Workshare Compare Configuration Manager (**Document Management** category).



The parameters are described in the following table:

| Parameter  | Description   |
|--|---|
| <b>Delay connection to DOCS Open network mapping</b> | If selected and when using DOCS Open only, the connection between DOCS Open and Workshare Compare is slowed down. Occasionally the connection between Workshare Compare and DOCS Open is too fast. This causes Workshare Compare to use all drive mappings on the client PC. Slowing the connection prevents this from happening. |

| Parameter   | Description   |
|---|---|
| <b>Delay for DOCS Open Save (in milliseconds)</b> | The delay in the save process between Workshare Compare and DOCS Open.  |
| <b>Document Format</b>                            | The format of the Redline document when it is saved. You can select from the following: <b>DeltaFile Format</b> , <b>Rich Text Format</b> , <b>Microsoft Word Format</b> , <b>Text Only</b> or <b>Adobe Acrobat</b> . |

***Note:** These parameters are not included for other Hummingbird DMS integrations, such as DM5. The **Display document description as well as document id** parameter is included for all DMSs.*

## Hummingbird Integration – DM6

In order to use Workshare Compare with a Hummingbird DMS, you must add the Workshare Compare file type and identify Workshare Compare as an application in the DMS server so that the DMS can recognize and work with Workshare Compare files. Additionally, the Workshare Compare, Workshare Compare and the Microsoft Word applications must be made 'compatible' with the Hummingbird DMS.

***Note:** The Hummingbird server integration procedures only need to be performed once per Hummingbird server. The procedures can be performed from the server or client machine.*

The configuration for DM6 is performed using a Web interface. The configuration for DOCS Open and DM5 is very similar and is described on page 50.

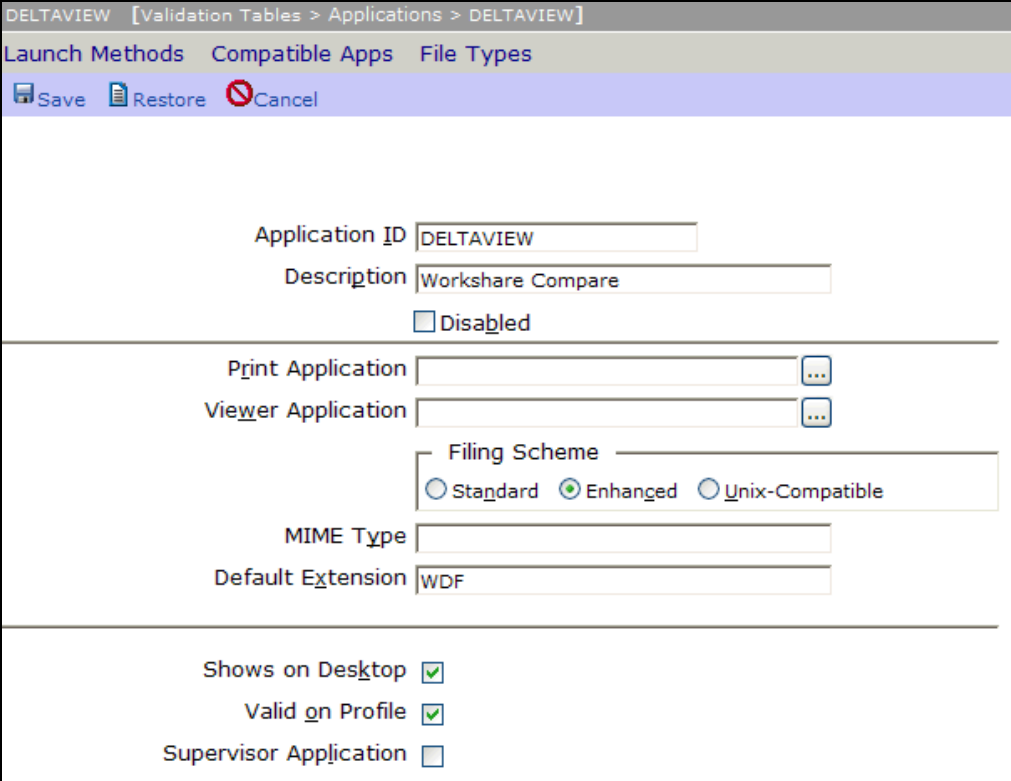
### Adding the Workshare Compare Application to the DM6 Server

This step includes identifying the file types used by Workshare Compare as well as specifying the location of the Workshare Compare executable file. The procedure described below is performed from the DM5 server or client machine.

#### To add application and file types to the DM6 server:

1. Open your browser and enter (name of DM6 server)/cyberdocs.
2. Log into the DM6 interface as an administrator.
3. Select the **DM Admin** tab.
4. Click the Validation Tables tab.
5. In the **Applications** tab, click **Add**.

6. Complete the fields as shown below:



DELTAVIEW [Validation Tables > Applications > DELTAVIEW]

Launch Methods Compatible Apps File Types

Save Restore Cancel

Application ID DELTAVIEW

Description Workshare Compare

Disabled

---

Print Application ...

Viewer Application ...

Filing Scheme

Standard  Enhanced  Unix-Compatible

MIME Type

Default Extension WDF

---

Shows on Desktop

Valid on Profile

Supervisor Application

**Note:** Selecting the **Shows on Desktop** checkbox places the Workshare Compare icon on the DM6 desktop and selecting the **Valid on Profile** checkbox makes Workshare Compare available within a user profile.

7. Click **Save**. Workshare Compare now appears in the list of applications as "DeltaView".
8. In the list of applications, click the new **DeltaView** entry.
9. Click Launch Methods.

10. Click **Add**.

The screenshot shows a 'New Launch Method' dialog box with the following fields and values:

- Application:** DELTAVIEW
- Description:** Workshare Compare
- Location:** \program files\workshare\modules\deltavw.exe
- Command Line Parameters:** %FULLPATH /PathEncode=PowerDocs
- Default Directory:** (empty)
- Integration:** ODMA Compliant
- Enabled:**

Below the main fields is a 'Directory Monitoring' section:

- Monitor directory:** (empty)
- Include Subdirectories:**
- Filename mask:** (button)

11. In the **Location** field, enter the location of the Workshare Compare executable file. By default, this is **C:\Program Files\Workshare\Modules\DeltaVw.exe**.
12. In the Command Line Parameters field, enter %FULLPATH /PathEncode=PowerDocs.

**Note:** Do not forget to enter a space between FULLPATH and the forward slash.

13. From the **Integration** dropdown list, select **ODMA Compliant**.
14. Click **Save**.

## Adding File Types to the DM6 Server

This step describes how to add the Workshare Compare file type (W3) and Workshare Compare file type (WDF) to the DM6 server.

### To add file types to the DM6 server:

1. In the list of applications in the **Applications** tab, click **DeltaView**.
2. Click File Types.
3. Click **Add**.

- Complete the fields as shown below:

The screenshot shows a window with tabs for 'Applications', 'Document Types', 'Clients', and 'Matters'. The 'Applications' tab is active. Below the tabs is a toolbar with 'Save', 'Restore', and 'Cancel' buttons. The main area contains two text input fields: 'File Extension' with the value 'WDF' and 'Description' with the value 'Workshare Delta File'.

- Click **Save**.

## Making Workshare Compare Compatible with DM6

In order for files created in Workshare Compare, Workshare Compare or Microsoft Word to be retrieved from DM6, Workshare Compare, Microsoft Word and Workshare Compare must be made "compatible applications" with DM6.

### To make Microsoft Word a compatible application:

- In the list of applications in the **Applications** tab, click **DeltaView**.
- Click Compatible Apps.
- From the **Non-Compatible Apps** list, select **MS Word** and click **<<**. Microsoft Word is added to the **Compatible Apps** list.

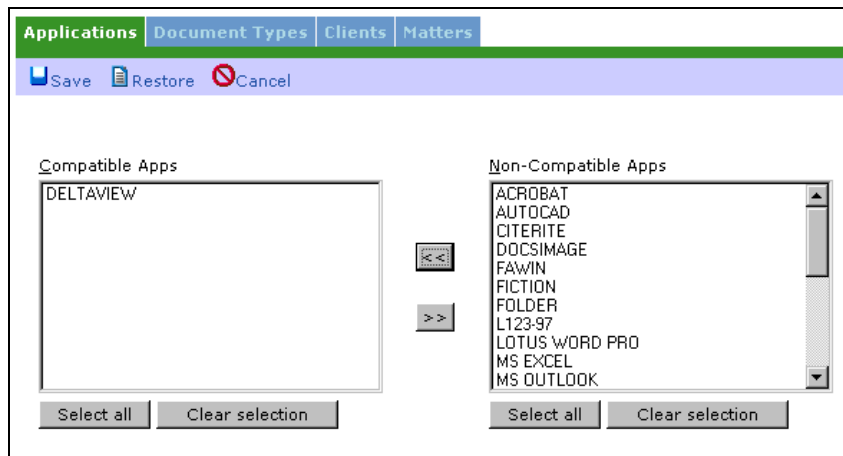
The screenshot shows the same 'Applications' window. It features two lists of applications. The 'Compatible Apps' list on the left contains 'MS WORD'. The 'Non-Compatible Apps' list on the right contains: ACROBAT, AUTOCAD, CITERITE, DOCSIMAGE, FAWIN, FICTION, FOLDER, L123-97, LOTUS WORD PRO, MS EXCEL, and MS OUTLOOK. Between the lists are two arrow buttons: '<<' and '>>'. Below each list are 'Select all' and 'Clear selection' buttons.

- Click **Save**.

### To make Workshare Compare a compatible application:

- In the list of applications in the **Applications** tab, click **MS Word**.
- Click Compatible Apps.

- From the **Non-Compatible Apps.** list, select **Compare** and click **<<**. Workshare Compare is added to the **Compatible Apps.** list.



- Click **Save**.

## SharePoint Integration - Server Installation

In order to use Workshare Compare with SharePoint, the Workshare Professional Extension for SharePoint must be installed on Microsoft Windows Server 2003 running Microsoft Windows SharePoint Services 3.0.

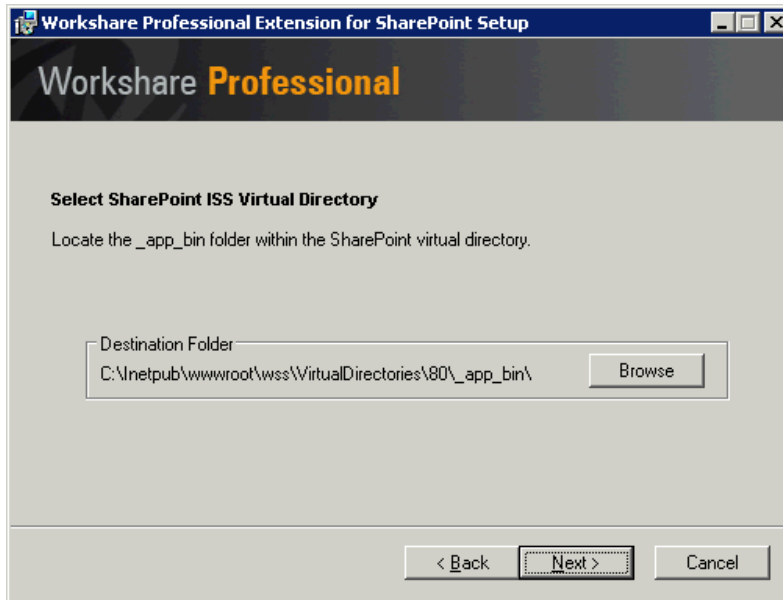
Before beginning the installation procedure, make sure that all other programs are closed and disable any anti-virus software.

### To install Workshare Professional Extension for SharePoint:

1. Locate the installation package Workshare.SharePoint.WebService.msi and double-click to start the installation wizard. The installation welcome screen is displayed.

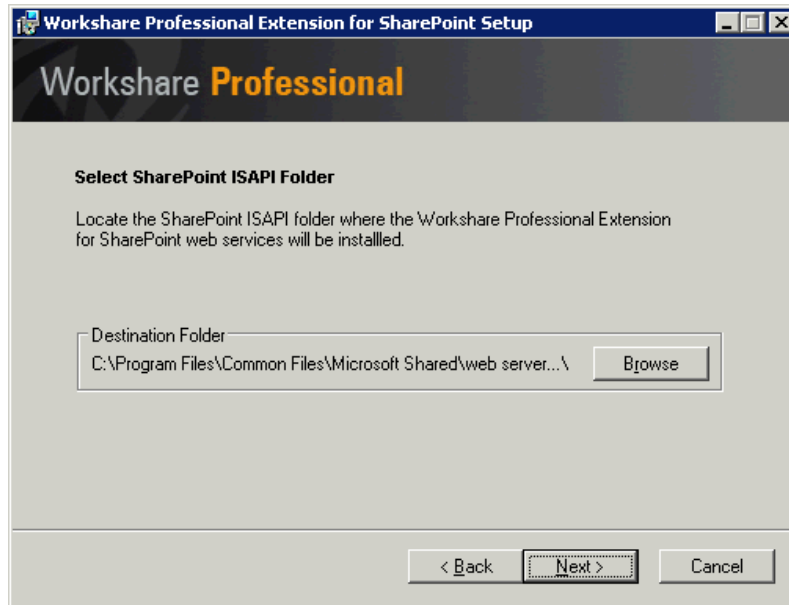


2. Click **Next**.

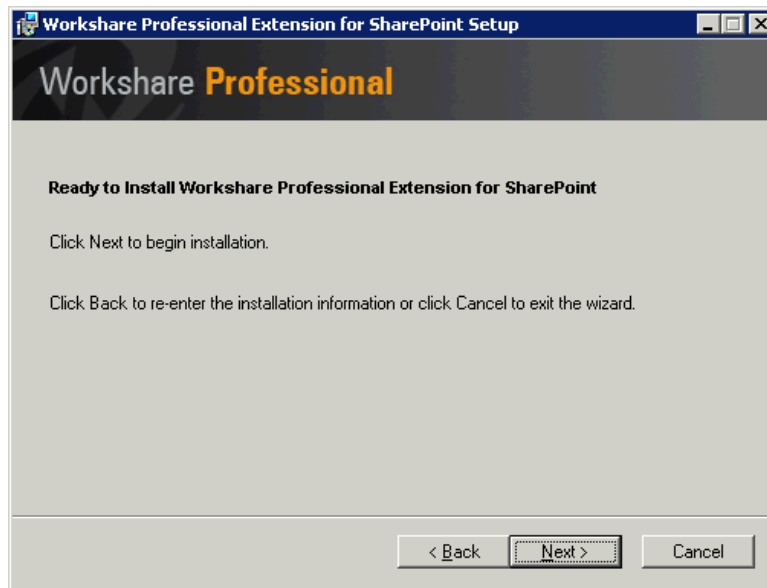


3. Select the **bin** folder in the SharePoint virtual directory where Workshare Professional Extension for SharePoint will be installed. By default this is located at C:\inetpub\wwwroot\wss\VirtualDirectories\80\bin.

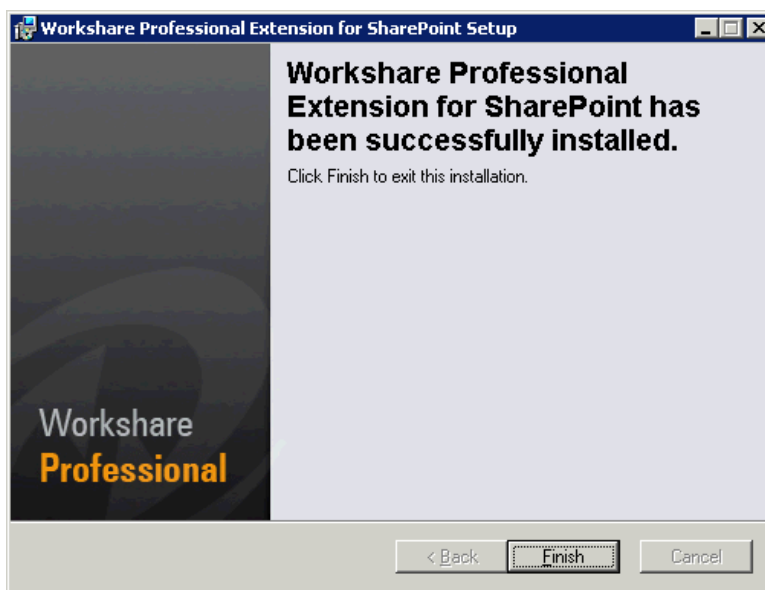
4. Click **Next**.



5. Select the SharePoint ISAPI directory where the Workshare Professional Extension for SharePoint web services will be installed. By default, this is located at C:\Program Files\Common Files\Microsoft Shared\web server extensions\12\ISAPI\.
6. Click **Next**.



- Click **Next** to begin installation or click **Back** button to change any installation settings.



- Once the installation has completed, click **Finish**.

## SharePoint Integration - Client Configuration

The SharePoint Integration for Workshare Compare is provided as part of the Workshare Compare installation package and requires a small amount of configuration on the client to specify SharePoint sites and servers that will be accessed from Workshare Compare.

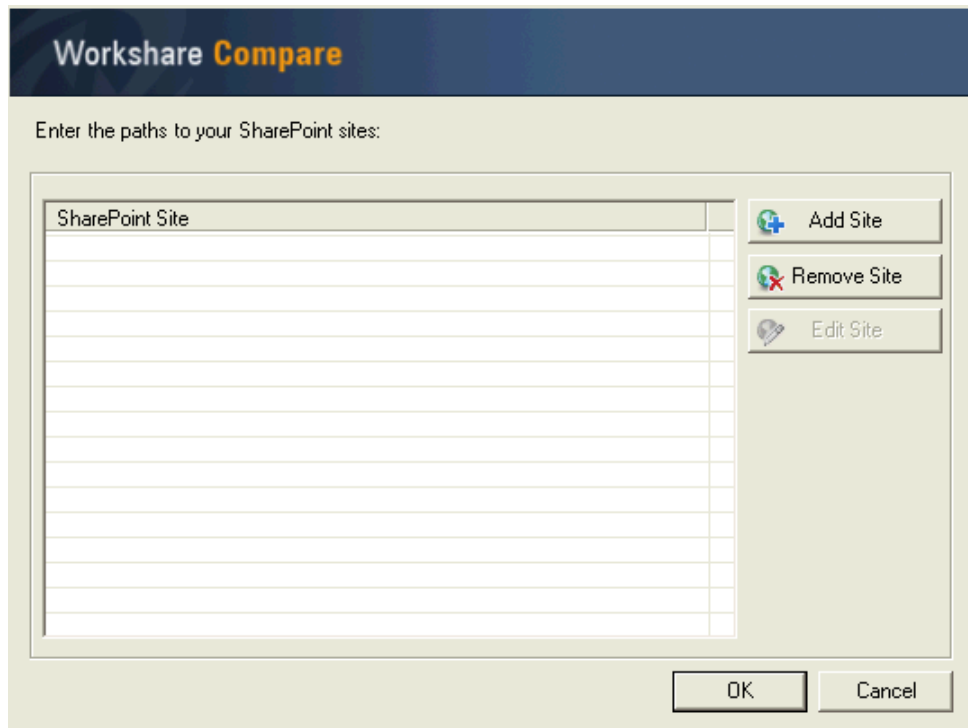
### SharePoint Site Configuration

When comparing documents, users can select documents from a SharePoint site. The sites available for selection have to be configured in the Workshare Configuration Manager.

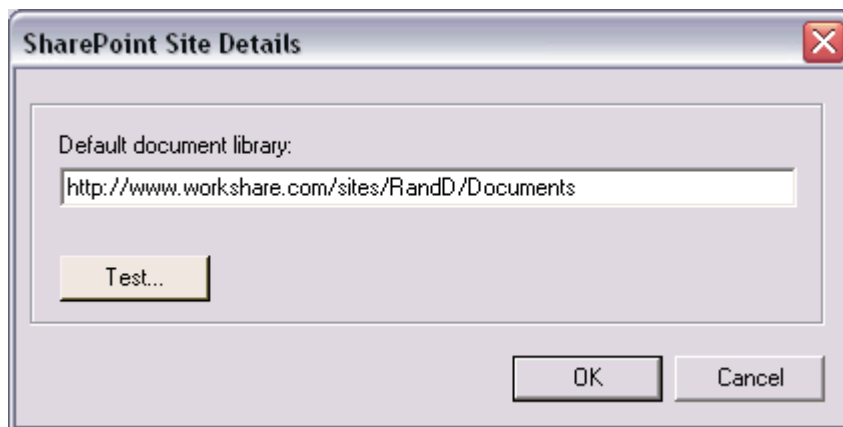
#### To configure SharePoint sites:

- Open Microsoft Word and from the *Workshare* menu select **Options** (MS Office 2003/XP) or click **Options** in the *Workshare* tab, **Options** group (MS Office 2007). The Options page is displayed in the Workshare Panel.
- Click **Workshare Application Configuration**. The Workshare Configuration Manager is displayed.
- Select the **Document Management** category in the left pane.

- In the right pane, select **Workshare SharePoint Connector** and click **Properties**. The following dialog is displayed.



- Click **Add Site**. The *SharePoint Site Details* dialog is displayed.



- In the **Default document library** field, enter the URL of the SharePoint site.
- Click **Test** to test the connection to the site.
- Click **OK**.
- Repeat steps 5 to 8 to add further sites as required.
- Click **OK**.
- In the Workshare Configuration Manager, click **Apply** and then **OK**.

## Workshare OCR Server Integration

Workshare Compare integrates with OCR technology to enable comparison of PDFs that have been created directly from scanning. Where OCR has not been used and PDFs contain pure images of text, Workshare Compare can integrate with the Workshare OCR Server to apply OCR to the PDFs before performing comparisons. Such PDFs can only be compared when you have the Workshare OCR Server configured.

The Workshare OCR Server is powered by ABBYY. Before continuing, ensure that the ABBYY Recognition Server software has been installed and set up on a separate server. (Instructions on installing the ABBYY Recognition Server are detailed in the ABBYY Recognition Server Administration Guide, from page 9.)

During the ABBYY Recognition Server install, the administrator will be prompted to select the components that will be installed on the server. For a standalone server installation, the following components are installed:

- Server Manager
- Remote Administration Console
- Processing Station
- Verification Station (optional for Workshare integration)
- COM-based API
- Web Service

Before configuring Workshare Compare to connect to the ABBYY Recognition Server, you must configure the ABBYY Recognition Server to accept requests from the Workshare Compare clients. This includes setting up a workflow(s) for the various PDF documents that a user may send to the ABBYY Recognition Server.

## Create Workflow on the Server for Workshare OCR Integration

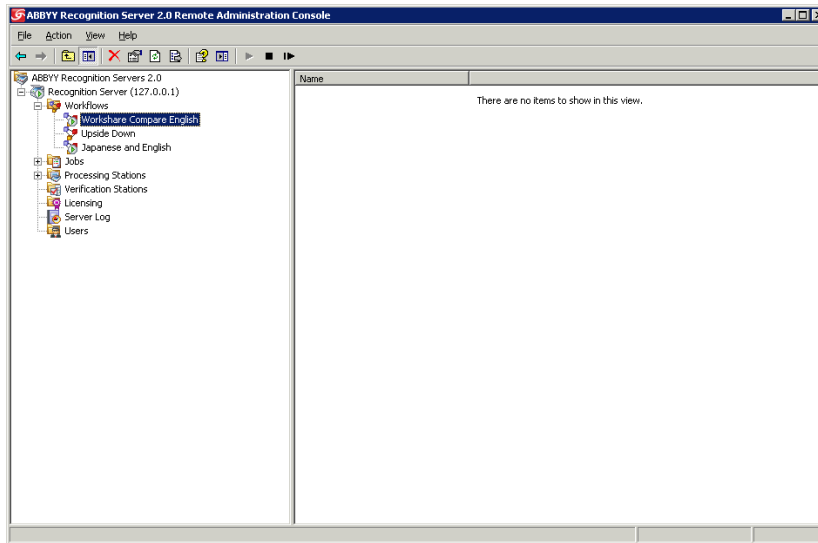
The steps below will walk you through creating a workflow for handling English documents.

**Note:** Languages classified as hieroglyphic languages on the ABBYY Recognition Server will require a separate workflow. For instance, if you are working with Japanese or Korean language documents, a separate workflow would need to be created for each language. Otherwise, you can combine up to five different non-hieroglyphic languages in one workflow (i.e., English, Spanish, French, German and Italian).

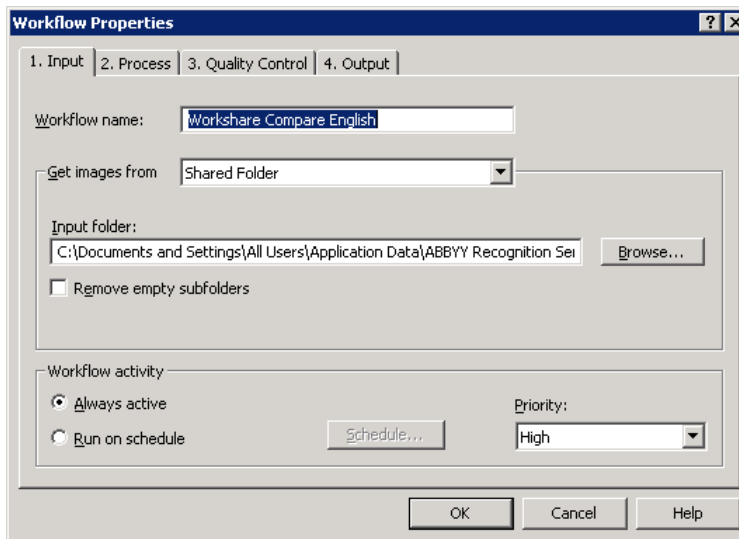
### To create an ABBYY workflow:

1. Launch the ABBYY Recognition Server Remote Administration Console from where you installed the ABBYY Recognition Server.

2. Right-click **Workflows** and select **New Workflow**.

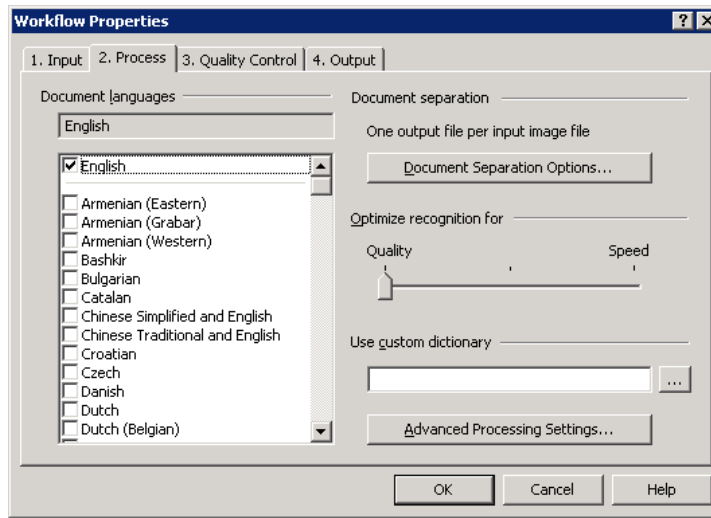


3. In the *Workflow Properties* dialog, select the **1. Input** tab.

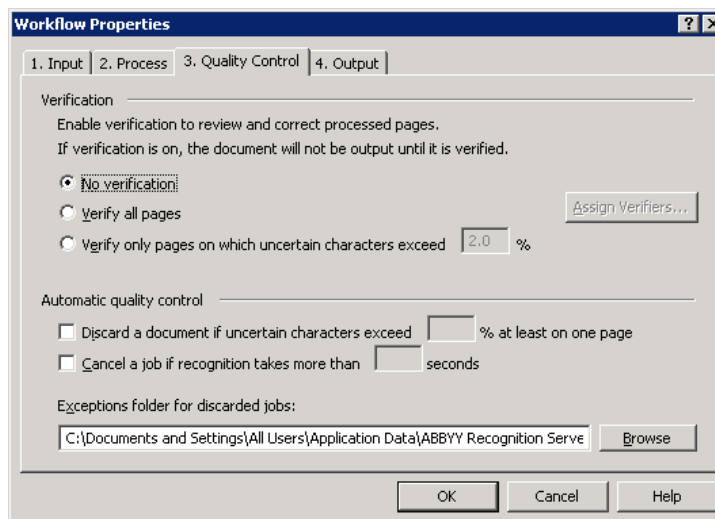


4. In the **Workflow name** field, enter a name for the workflow. An example of a name you could use is "Workshare Compare English". An easily identifiable name for the workflow is recommended so that users can easily identify it as being specific for Workshare Compare.

5. Select the **2. Process** tab.



6. Check that **English** has been selected as the document language and that the option **Optimize recognition for** is set to **Quality**.
7. Select the **3. Quality Control** tab.



8. Under **Verification**, ensure that the option **No verification** is selected.

**Note:** The last tab, **4. Output**, can be ignored.

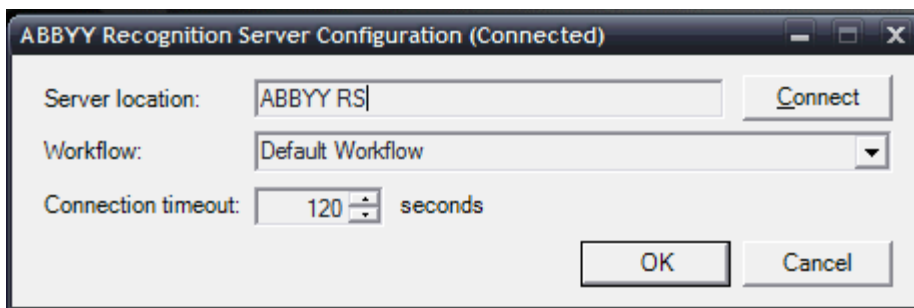
9. Click **OK**. This workflow will be listed under the **Workflows** folder in the Remote Administration Console.

## Configuring the Workshare OCR Connector on the Client

You must now configure Workshare Compare to connect to the ABBYY Recognition Server. This is done from the **OCR** category of the Workshare Compare Configuration Manager, described on page 110.

### To configure the Workshare OCR connector:

1. In the Workshare Compare Configuration Manager, select **OCR**.
2. Select **Advanced PDF (ABBYY)** and click **Configure**. The *ABBYY Recognition Server Configuration* dialog is displayed.
3. In the **Server location** field, specify the name of the server where you installed ABBYY Recognition Server and click **Connect**. If a connection with the server is established "Connected" is displayed in the title bar of the dialog.
4. From the **Workflow** dropdown list, select the default workflow created.
5. In the **Connection timeout** field, select 120 seconds as the timeout.



6. Click **OK**.

## Troubleshooting

The following issues may arise if the server is not configured correctly.

### Clicking Connect to OCR Server Returns 404 Error

If you click **Connect** in the *ABBYY Recognition Server Configuration* dialog, and an error is displayed, check the following configuration.

#### To check that ASP.NET v2.0.5.0727 is correctly configured:

1. Go to IIS Manager.
2. Click the Web Service Extensions folder.
3. Look for ASP.NET v2.0.5.0727 and check that the status is **Allowed**.
4. If status is **Prohibited**, click **Allow** to enable the extension.
5. Re-test the URL, <http://localhost/RecognitionWS/RSSoapService.asmx>

## Documents do not Return from Server

When running a comparison, if documents are not returned from the server (the progress bar completes and the selection box is redisplayed), check the following configuration.

### To check the IIS Anonymous User Permissions:

1. Go to IIS Manager.
2. Right-click **Properties** on <machinename>\Web Sites\RecognitionWS.
3. Click the **Directory Security** tab.
4. Click the **Authentication** tab and in the **Access Control** area, click **Edit**.
5. Check that **Enable anonymous access** is selected and note the user name.

The user name should also be added to the Security on the Output folder (e.g., C:\Documents and Settings\All Users\Application Data\ABBYY Recognition Server 2.0\Default Workflow\Output Folder). This is described in the following procedure.

### To check the permissions on the Output folder:

1. Log on to the ABBYY Recognition Server Remote Administration Console.
2. Look at the USER column of the job log. Typically this is NETWORK SERVICE user.
3. The user name NETWORK SERVICE should also be added to the Security on the Output folder (e.g., C:\Documents and Settings\All Users\Application Data\ABBYY Recognition Server 2.0\Default Workflow\Output Folder).

**Note:** You can add this user to the ... \ABBY Recognition Server 2.0 folder and the child folders will inherit the same permissions.

## Comparing Large Files Fails

When comparing files that are larger than 1MB, there may be issues with sending them to the server. The progress bar completes and the selection box is redisplayed. Check the following configuration.

### To control the file size that can be sent to the server via Workshare:

1. On the server open the web.config located in C:\Program Files\ABBYY Recognition Server 2.0\RecognitionWS. (Make sure the file is not Read Only.)
2. Insert <httpRuntime maxRequestLength="8192"/> within the <system.web> element. (This is usually found near the top of the document.)

**Note:** The *maxRequestLength* value represents the maximum file size (in kilobytes) that can be sent to the server. In this example, the maximum file size is 8192KB (8MB).

3. Save web.config and restart IIS.

## Recommended Settings for Scanned Images for ABBYY

The following settings are from the ABBYY website for scanned images:

- **Scan Mode:** Gray or black and white. Scanning in grayscale mode provides best recognition quality. Black and white scanning maximizes scanning speed but may result in the loss of some character information. This may lower recognition quality in documents of medium and low print quality.
- **Resolution:** 300 dpi for regular texts (font size 10 pts or greater) and 400–600 dpi for texts set in smaller font sizes (9 pts or less).
- **Brightness:** A medium brightness value of around 50% should suffice in most cases. During grayscale scanning, brightness is adjusted automatically.

## Chapter 5. Network Deployment

This chapter describes how to install and license Workshare Compare across your network. It includes the following sections:

- **Overview**, below, introduces the options available for installing Workshare Compare across a network.
- **Deploying via the Command Line**, page 72, describes the steps required to use the command line to install and license Workshare Compare across your network.
- **Citrix Installation Guidelines**, page 77, describes how to install Workshare Compare on Citrix.
- **Active Directory Deployment Guidelines**, page 78, describes how to deploy Workshare Compare using Active Directory.
- **SMS Deployment Guidelines**, page 87, describes how to deploy Workshare Compare using SMS.

### Overview

Deploying Workshare Compare across your network means installing and licensing Workshare Compare on all workstations in your network. Workshare Compare can be deployed across your network using the Workshare Compare command line installation or third party deployment products.

It is recommended to deploy Workshare Compare in a licensed state and to that end the following procedures describe how to set the LICFILE property. However, you could also license Workshare Compare after installation. Refer to *Licensing Workshare Compare*, page 25. Additionally, if you want to deploy specific configuration settings with Workshare Compare, you must set the INIFILE property. Refer to *Chapter 3: Configuration*.

The main install now downloads prerequisites from the Internet if they are required. For enterprise deployments, the prerequisites have been bundled into a zip file (**WorksharePrereqsFor522.zip**). To skip downloading files from the Internet, the prerequisites can be extracted to the same location as the extracted files from the main installation files.

### Installation File Summary

The installation requires the following prerequisites:

| Prerequisite  | Version     | OS                      | Office       | Notes   |
|---|-------------|-------------------------|--------------|---|
| <b>Windows Installer</b>  | 3.1.0.0     | Windows XP, Server 2003 | NA           |   |
| <b>Microsoft .NET Framework 3.0</b>   | 3.0.4506.30 | Windows XP, Server 2003 | NA           | Microsoft .NET Framework 3 contains Microsoft .NET Framework 2 and MSXML 6.0. |
| <b>KB908002 - Shared Add-in Support Update for Microsoft .NET Framework 2.0</b> | 1.0.0       | NA                      | All versions | This KB is required for Microsoft Office to load .NET add-ins.                |

| Prerequisite   | Version        | OS                           | Office                   | Notes   |
|--|----------------|------------------------------|--------------------------|---|
| <b>MSXML 6.0</b>   | NA             | NA                           | NA                       | This prerequisite is installed by the Microsoft .NET Framework 3 install.   |
| <b>Microsoft Visual C++ 2005 SP1 Redistributable Package ATL Security Update (x86)</b> | 8.0.5193       | All (including x64 versions) | NA                       |   |
| <b>Microsoft Visual C++ 2005 SP1 Redistributable Package ATL Security Update (x64)</b> | 8.0.5192       | x64 OS versions              | NA                       | The right-click handler is written in x64 code and requires this prerequisite.  |
| <b>Microsoft Visual C++ 2008 SP1 Redistributable Package ATL Security Update (x86)</b> | 9.0.30729.4148 | All (including x64 versions) | NA                       |   |
| <b>Microsoft Visual C++ 2008 SP1 Redistributable Package ATL Security Update (x64)</b> | 9.0.30729.4148 | x64 OS versions              | NA                       | The right-click handler is written in x64 code and requires this prerequisite.  |
| <b>Microsoft Report Viewer (x86)</b>   | 8.0.50727.42   | All                          | NA                       |   |
| <b>KB907417 – Update for Office 2003</b>   | 1.0.0          | NA                           | Office 2003              |   |
| <b>KB935514 – Update for Office 2007</b>   | 1.0.0          | NA                           | Office 2007 pre SP1 only |   |
| <b>Microsoft Office System Primary Interop Assemblies (PIA)</b>                        | 12.0.4518.1014 | NA                           | Office 2007              |   |
| <b>Open XML Format SDK</b>   | 1.0.1825       | All                          | NA                       |   |
| <b>Windows Installer for Server 2003 (x64)</b>   | 3.1            | Windows Server 2003 x64      | n/a                      | <a href="http://www.microsoft.com/downloads/details.aspx?FamilyId=8B4E6B93-1886-4D47-A18D-35581C42ECA0&amp;displaylang=en">http://www.microsoft.com/downloads/details.aspx?FamilyId=8B4E6B93-1886-4D47-A18D-35581C42ECA0&amp;displaylang=en</a> |
| <b>Windows Installer for Server 2003 (x86)</b>   | 3.1            | Windows Server 2003 x86      | n/a                      | <a href="http://www.microsoft.com/downloads/details.aspx?FamilyId=8B4E6B93-1886-4D47-A18D-35581C42ECA0&amp;displaylang=en">http://www.microsoft.com/downloads/details.aspx?FamilyId=8B4E6B93-1886-4D47-A18D-35581C42ECA0&amp;displaylang=en</a> |

**Note:** Windows Installer and Microsoft .NET Framework should be installed first. The other prerequisite components can be installed in any order.

The extracted files include the following Workshare MSI packages:

- Workshare PDF Converter, version 5.1.168 [WorksharePdfConverter.msi]
- Workshare Compare Client, version 5.22 [WorkshareCompare.msi]

The extracted files include the following Workshare files which can be used to install Workshare Compare:

- Workshare.InstallWizard.exe
- Workshare.InstallWizard.ini

The Workshare.InstallWizard.exe uses the Workshare.InstallWizard.ini file which contains the information required to install Workshare Compare correctly. In the INI file each package has a section which provides information about the executable such as display name, version number, installer path and installer command line arguments.

## Deploying via the Command Line

You can use the executable file or the MSI files found within the executable file to install Workshare Compare from the command line.

### Installation Procedure with the Install Wizard

The Workshare Compare install contains the Workshare Install Wizard and Workshare installs. Some of the prerequisites are contained in the install. The Workshare Install Wizard examines the client desktop, downloads any prerequisites not present, installs the prerequisites and installs and configures the Workshare installs.

### Deploying Workshare Compare with the Self-Extracting Executable

The following procedure describes how to install Workshare Compare using the self-extracting executable.

#### To install Workshare Compare using the self-extracting executable:

1. Create a shared directory with relevant permissions so that client machines can access the Workshare Compare executable during the installation.
2. Copy the self-extracting executable to the shared directory.
3. Run the executable on the client desktop. This will extract the files to the client and run the Install Wizard on the client machine. Parameters passed to the self-extracting executable are passed on to the Install Wizard. The command line is:

```
<path to WorkshareCompare-9800.XXX.exe> -product "Workshare Compare" [-autorun] [-silent] [-acceptDownload]
```

You must add '-acceptDownload' to the command line if you are installing silently and there are prerequisites that need to be downloaded from the Internet. To skip downloading the prerequisites from the Internet, follow the instructions in the next section.

## Deploying Workshare Compare using Extracted Contents of the Executable

The following procedure describes how to install Workshare Compare using the contents of the self-extracting executable. Extracting the contents enables customization of the install and allows the administrator to skip downloading the prerequisites by providing the prerequisites directly.

### To install Workshare Compare using the extracted contents of the executable:

1. Create a shared directory with relevant permissions so that client machines can access the Workshare Compare installation files during the installation.
2. Extract the contents of the Workshare Compare executable to the directory created in step 1.
3. (Optional) Extract the contents of **WorksharePrereqsFor522.zip** to the directory created in step 1.
4. Run the Install Wizard on the client desktop with the appropriate options. You must specify '-acceptDownload' if you have specified '-silent', you have NOT followed step 3 and prerequisites are required by the client desktop. The Install Wizard command line can be:

```
<path to Workshare.InstallWizard.exe> -product "Workshare Compare" [-autorun] [-silent] [-acceptDownload]
```

### Examples

If you want an install where the user must click through the Wizard screens, an example command would be as follows:

```
<path to Workshare.InstallWizard.exe> -product "Workshare Compare"
```

If you want an install where the progress is displayed to the user but they do not have to click through the Wizard screens, an example command would be as follows:

```
<path to Workshare.InstallWizard.exe> -product "Workshare Compare" -autorun -acceptDownload
```

If you want an install where the progress is not displayed to the user, an example command would be as follows:

```
<path to Workshare.InstallWizard.exe> -product "Workshare Compare" -silent -acceptDownload
```

## Installation Procedure using the MSI Files Directly

To install Workshare Compare using the MSI files you must extract the contents of the Workshare Compare executable and ensure that all prerequisites are installed on the client desktop.

### Installation Procedure without Install Wizard

For each file that you need to install you must retrieve the following information from the appropriate section in the Workshare.InstallWizard.ini file:

- InstallerPath
- InstallerArgs

For executables you must specify the full path to the location of the executable in `InstallerPath` followed by the `InstallerArgs`. In general this will install the executable quietly.

For MSIs you must specify `msiexec.exe /i [InstallerPath] [InstallerArgs]`.

**To deploy Workshare Compare without the Install Wizard using the command line:**

1. Create a shared directory with relevant permissions so that client machines can access the Workshare Compare installation files during the installation.
2. Extract the contents of the Workshare Compare executable to the shared directory created in step 1.
3. Install prerequisites, as listed on page 70.
4. Install `WorksharePdfConverter.msi`.
5. Install `WorkshareCompare.msi`.

In order to deploy Workshare Compare in a licensed state, the property `LICFILE` is set in the install string of the Compare Client. In order to deploy Workshare Compare with specific configuration settings, the property `INIFILE` is set. Refer to *Chapter 3: Configuration* for information on creating and saving configuration (INI) files.

**Note:** The Workshare Compare MSIs must be installed in the order specified above.

## Example Installation

The following example will install Workshare Compare for the first time on a system that requires .NET 3 Framework quietly. This is done from the command line, from within a DOS window or using a batch (.bat) file and should only be attempted by the network administrator or other qualified personnel. It assumes that the files have been extracted to a shared directory.

**To install Workshare Compare:**

1. Enter the following command to install the .NET 3 Framework quietly:

```
<path to shared directory>dotnetfx3.exe /q:u /c:"install /q /l"
```

2. Enter the following command to install the Pdf Converter quietly:

```
msiexec.exe /i <path to shared directory>\WorksharePdfConverter.msi /qn
```

3. Enter the following command to install the Compare Client quietly:

```
msiexec.exe /i <path to shared directory>\WorkshareCompare.msi  
REINSTALL=ALL REINSTALLMODE=vomus ALLUSERS=1 SKIP_UPGRADE_WARNING=1  
<property1> <property2> <property...> /qn
```

**Note:** If you want to turn logging on during the install, add `/!*v <path and name of log file>` before `/qn`. This generates a Windows Installer verbose (descriptive) log file which can be useful should you need to contact Workshare Technical Support.

As an alternative to installing quietly (`/qn`) the following `msiexec` command line arguments can be used:

`/qn+` = silent install with final notification

`/qb` = basic interface installation

`/qr` = reduced interface installation

Refer to *Appendix A: Additional Msiexec.exe Parameters and Switches*, for additional parameters and switches that can be passed to the msiexec.exe.

## Compulsory Properties

The following tables shows the compulsory properties that must be specified and which MSI they relate to.

| Property                    | MSI                   | Value  |
|-----------------------------|-----------------------|--|
| <b>REINSTALL</b>            | PDF Converter Protect | Ensures that upgrades install correctly.<br>The required value is <b>ALL</b> .   |
| <b>REINSTALLMODE</b>        | PDF Converter Compare | Sets the reinstall mode for upgrades.<br>The default value is <b>vomus</b> . This ensures that the latest versions of the MSI packages are cached and older files are overwritten. |
| <b>ALLUSERS</b>             | PDF Converter Compare | Installs the application per machine.<br>The default value is <b>1</b> .   |
| <b>INSTALLDIR</b>           | Compare               | Specifies the installation folder for Workshare Compare.<br>The default value is <b>&lt;ProgramFilesFolder&gt;\Workshare\Modules</b> .   |
| <b>SKIP_UPGRADE_WARNING</b> | Compare               | Disables the display of the upgrade warnings when installing Workshare Compare.<br>The required value is <b>1</b> .  |

## Compare Client Properties

The following tables shows the optional properties that can be specified to the Protect Compare install.

| Property       | Value  |
|----------------|--|
| <b>INIFILE</b> | <p>Name and location of the configuration file. For example, <b>INIFILE="\\server\share\inifile.ini"</b>. The specified INI file is loaded and applied. For further information on the INI file, refer to <i>Chapter 3: Configuration</i>.</p> <p><i>Note: If you manually copy an INI file into the <b>Modules\Config</b> folder of the Workshare Compare installation directory folder, it will be applied when the Workshare Configuration Assistant is run. It will not be reapplied if the Workshare Configuration Assistant is run again, as it caches the time stamp on the INI file.</i></p> |

| Property                              | Value  |
|---------------------------------------|--|
| <b>LOGFILE</b>                        | <p>Name and location of the WCA log file. For example, <b>LOGFILE="C:WorkshareConfig.log"</b>. The log file can either be stored at a shared location or stored locally on the workstation. If a location is not specified for the log file it will be written to the local TEMP folder. By default the log file is named <b>WorkshareConfig.log</b>.</p> <p>The WCA log file will provide details of all the steps the WCA has taken and can be passed to Workshare if any difficulties are encountered.</p> <p>The log file is appended to, not overwritten, in order to retain all logged information. Therefore the latest details will be at the end of the log file.</p> |
| <b>LICFILE</b>                        | <p>Name and location of the license file. For example, <b>LICFILE="\\server\share\Workshare.lic"</b>. The specified LIC file will be copied to the <b>Modules</b> folder of the Workshare Compare installation directory.</p> <p><i>Note: The most recent license file will be used by Workshare Compare.</i></p>  |
| <b>NOTESINIFILE_PATH</b>              | <p>Location of the notes.ini file. This should be specified in non-standard IBM Lotus Notes environments to ensure that Workshare components are added correctly to the INI file by the install.</p>   |
| <b>INSTALL_COMPARE</b>                | <p>Turns Compare module on. To enable installation of the Compare module, set <b>INSTALL_COMPARE=ON</b>.</p>   |
| <b>INSTALL_DVSHORTCUT</b>             | <p>Installs the Workshare Compare shortcut on the desktop. The shortcut is created by default. To prevent the creation of the shortcut set <b>INSTALL_DVSHORTCUT=OFF</b></p>   |
| <b>INSTALL_HUMMINGBIRD</b>            | <p>Turns Hummingbird module on. To enable installation of the Hummingbird module, set <b>INSTALL_HUMMINGBIRD=ON</b>.</p>   |
| <b>INSTALL_INTERWOVEN</b>             | <p>Turns Interwoven module on. To enable installation of the Interwoven module, set <b>INSTALL_INTERWOVEN=ON</b>.</p>  |
| <b>INSTALL_SHAREPOINT</b>             | <p>Turns SharePoint module on. To enable installation of the SharePoint module, set <b>INSTALL_SHAREPOINT=ON</b>.</p>  |
| <b>INSTALL_EXCEL_INTEGRATION</b>      | <p>Integrates Workshare Compare into Microsoft Excel. To enable installation of the Microsoft Excel integration, set <b>INSTALL_EXCEL_INTEGRATION=ON</b>.</p>  |
| <b>INSTALL_OUTLOOK_INTEGRATION</b>    | <p>Integrates Workshare Compare into Microsoft Outlook. To enable installation of the Microsoft Outlook integration, set <b>INSTALL_OUTLOOK_INTEGRATION=ON</b>.</p>  |
| <b>INSTALL_POWERPOINT_INTEGRATION</b> | <p>Integrates Workshare Compare into Microsoft PowerPoint. To enable installation of the Microsoft PowerPoint integration, set <b>INSTALL_POWERPOINT_INTEGRATION=ON</b>.</p>   |
| <b>INSTALL_WORD_INTEGRATION</b>       | <p>Integrates Workshare Compare into Microsoft Word. To enable installation of the Microsoft Word integration, set <b>INSTALL_WORD_INTEGRATION=ON</b>.</p>   |

If none of the Microsoft Office integrations is specified, then all integrations are installed and Workshare Compare will integrate with Microsoft Word, PowerPoint, Excel and Outlook. If one of the Microsoft Office integrations is specified, then the others are assumed to be “off” unless specifically specified as “on”.

**Notes:** The **Save templates in STARTUP folder** option can be turned on by creating the following Registry key: **SaveTemplatesToStartupFolder** with a DWORD value of **1** in the following Registry location: **HKEY\_LOCAL\_MACHINE\SOFTWARE\Workshare\Framework\Settings**. You must create this Registry key before running the Workshare Compare installer.

For further information about the Microsoft Office integration options and the **Save templates in STARTUP folder** option, see page 19.

### Example Workshare Compare Client Install Command Line

An example of a Workshare Compare Client installation command line is as follows:

```
msiexec.exe /i "\\InstallMachine\Workshare\WorkshareCompare.msi" REINSTALL=ALL
REINSTALLMODE=vomus ALLUSERS=1 INIFILE="\\InstallMachine\
Workshare\Workshare.ini" LOGFILE="\\InstallMachine\Workshare\Workshare.log"
LICFILE="\\InstallMachine\Workshare\Workshare.lic"
```

**Note:** Properties and values are all case sensitive.  
The use of “ ” should be used where there is character spacing in file paths.  
When using the /qn, /qn+, /qb or /qr switches, the WCA runs but is not visible to the user.

## Citrix Installation Guidelines

Workshare Compare can be installed on a Citrix server using the standard installation process. To restrict the number of users who have access to Workshare Compare, you are required to manually modify the Registry keys.

**Note:** Workshare Compare is configured to install on a per machine basis and not a per user basis.

### To install Workshare Compare on the Citrix server:

1. Ensure the Terminal Server is in Install mode.
2. Install Workshare Compare on the Citrix server using the standard installation process. It is recommended that the default folder structure: “Program Files/Workshare/Modules” is retained. Refer to *Chapter 2: Installation*, page 22, for more information.
3. Remove any shortcuts from the desktop if they were created.

The above steps will install Workshare Compare for all users of the Terminal Server. To customize access to Workshare functionality, use the following approach:

**Enable Specific Users:** Remove Workshare integration from all Microsoft Office applications and then use a logon script deployed to specific users (using Active Directory) to reconfigure the Workshare integration when needed/necessary.

**Note:** When the installation remains a per machine install, all users using the Citrix server where Workshare Compare is installed will get Workshare Compare. This may not be required and it will increase the load on the server.

## Enable Specific Users

These steps are best performed immediately after installation of Workshare Compare.

### To disable Workshare Compare for all Microsoft Office 2007/2003/XP users:

1. Merge the (Read Admin Guide)Citrix\_Protect\_LM\_Remove.reg file into the Registry.
2. Check the HKEY\_USERS\DEFAULT and remove any Workshare entries.

**Note:** The (Read Admin Guide)Citrix\_Protect\_LM\_Remove.reg key also removes the shadow Registry entries which control the operation of "userinit" in terminal services environments. Refer to the following Microsoft article for further information: <http://support.microsoft.com/?kbid=297379>.

### To enable Workshare Compare for individual Microsoft Office 2007/2003/XP users:

- Use Active Directory to merge the Registry file (Read Admin Guide)Citrix\_Protect.reg to the required user.

To remove access to Workshare Compare once granted, use Active Directory to merge (Read Admin Guide)Citrix\_Protect\_CU\_Remove.reg file for the specific user.

## Active Directory Deployment Guidelines

When working with Windows 2003 Server, you can deploy Workshare Compare across your network using Active Directory. "Assigned to machine" installation is the preferred method of distributing Workshare Compare via Active Directory and is described in the following procedure. The "assigned to user" and "published to user" methods are discussed on page 85.

**Note:** Before installing using this method, please refer to the section, Installing the MSI with the Command Line, page 72.

In order to deploy the non-MSI prerequisite files via Active Directory, you can create a .zap file. (See <http://support.microsoft.com/kb/231747>) A .zap file can be published via a group policy.

In order to deploy Workshare Compare in a licensed state, the property LICFILE is set via a Windows Installer transform file (\*.mst). This step is included in the following procedure. Other properties, such as INIFILE, which specifies the configuration of Workshare Compare, can also be set via the transform file. Refer to *Chapter 3: Configuration* for information on creating and saving configuration (INI) files.

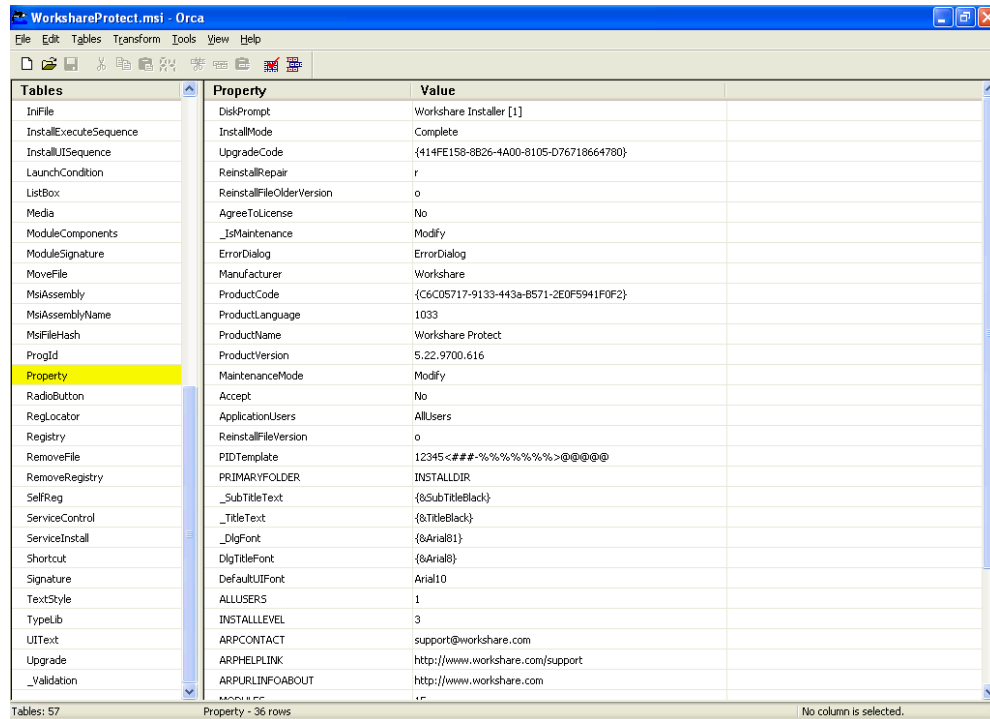
The following procedure must be completed for each of the four installation components of Workshare Compare. The following example illustrates how to create the WorkshareCompare.msi Active Directory group policy. The precedence of the group policies must be configured so that the policies are applied in the following order:

1. WorksharePDFConverter.msi

## 2. WorkshareCompare.msi

### To deploy Workshare Compare using Active Directory:

1. On the Windows 2003 Server machine, create a shared folder with relevant permissions so that client machines can access the Workshare Compare MSI during the automatic installation.
2. Extract the MSI file (**WorkshareCompare.msi**) from the Protect install file and copy it into the folder created in step 1.
3. Create a transform (MST) file. The transform file is used to specify properties, such as LICFILE, INSTALLDIR, during the installation. The following procedure describes how to create a transform file using the Orca utility provided in the Windows Installer Software Developers Kit.
4. Launch Orca.
5. Open the WorkshareCompare.msi file.



6. From the *Transform* menu, select **New Transform**. In the title bar of the window, **transformed by Untitled** is displayed in parenthesis after **WorkshareCompare.msi**.
7. In the left pane, select the **Property** table.

- Right-click in the right pane and select **Add Row**.

| Name     | Value                                |
|----------|--------------------------------------|
| Property | LICFILE                              |
| Value    | \\servername\sharename\workshare.lic |
|          |                                      |
|          |                                      |
|          |                                      |

Column  
Value - Localizable String(0), Required

\\servername\sharename\workshare.lic

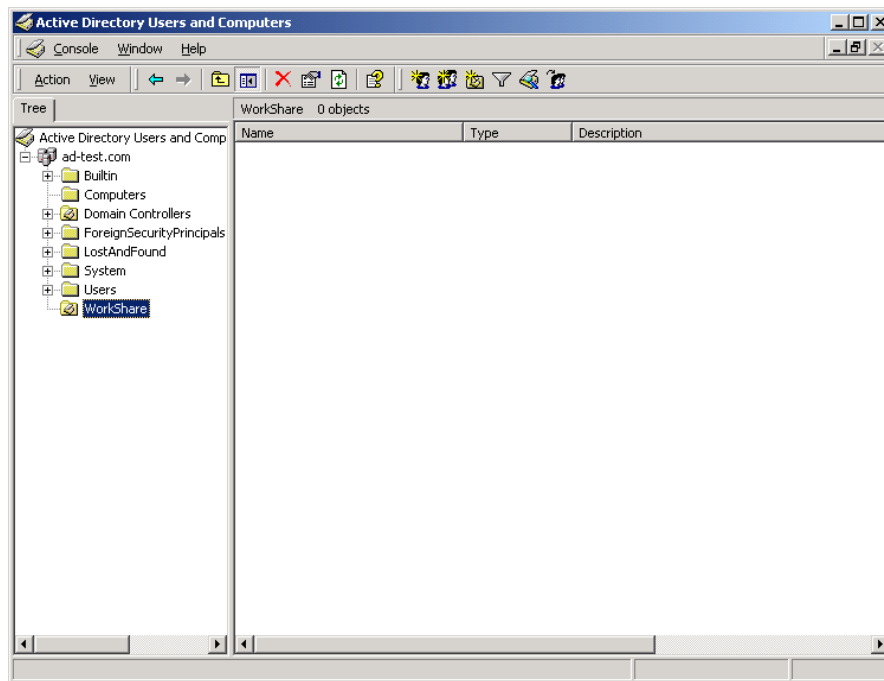
OK Cancel

- Select **Property** in the upper area and enter **LICFILE** in the lower area.
- Select **Value** in the upper area and enter the path to the license file (Workshare.lic) in the lower area. You are advised to specify this property otherwise Workshare Compare will be deployed in an unlicensed state and you will have to license it manually.

**Note:** The license file is provided by Workshare Ltd.

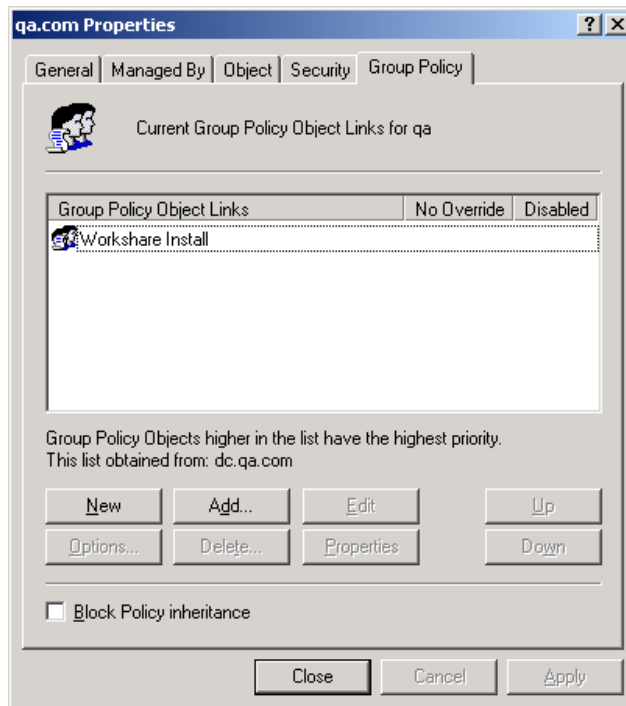
- Click **OK**.
- Repeat steps 8 to 11 for additional properties as required. You can add any of the properties specified on page 75.
- From the *Transform* menu, select **Generate Transform** and save the transform file to the shared folder created in step 1.

- From the Start menu, launch **Active Directory Users and Computers**. A list of organizational units is displayed on the left side.



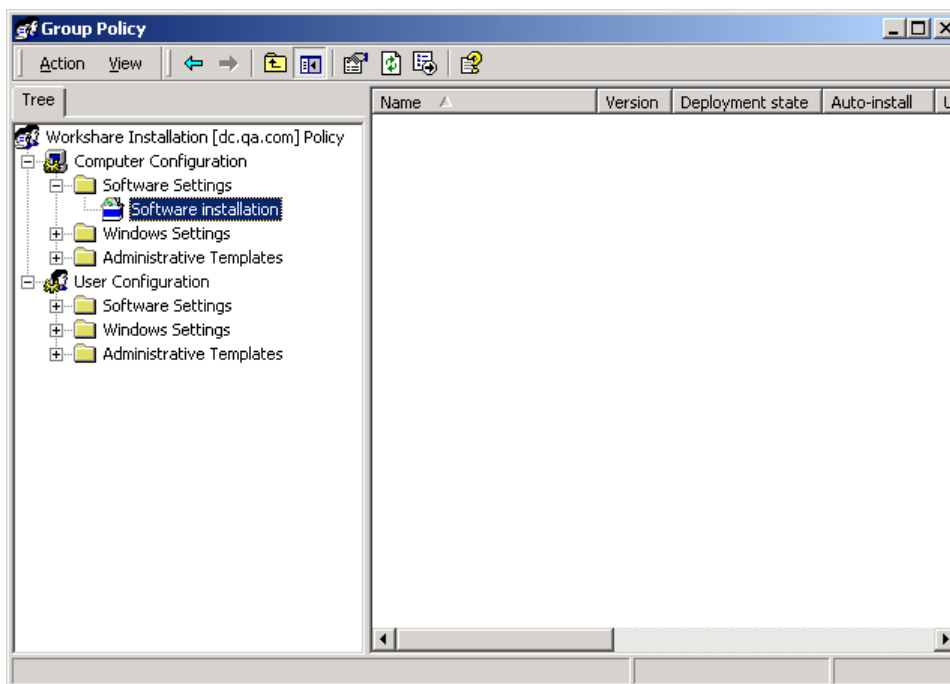
- You now have to configure a group policy for the users to which you will deploy Workshare Compare. This is done for each organizational unit that includes users to which you want to deploy.
- Right-click an organizational unit and select **Properties**.

17. In the **Group Policy** tab, click the **New** button and enter a name for the new policy (for example, **WsDistrib**).

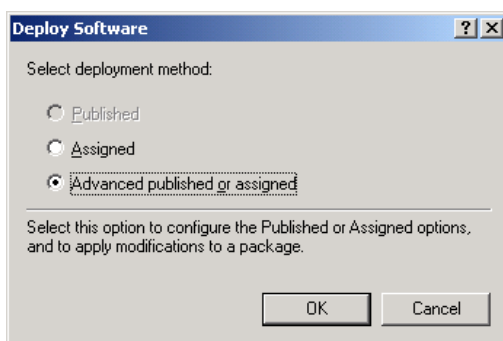


18. Select the new policy in the upper area and click the **Properties** button.
19. In the **Security** tab, click **Add**. A list of users in the organizational unit is displayed.
20. For all users to which you will deploy Workshare Compare, ensure that at a minimum the following permissions are selected:
- **Read**
  - **Apply Group Policy**
21. For any users to which you do not want to deploy Workshare Compare, ensure that the **Apply Group Policy** permission is not selected.
22. Click **OK**.
23. In the **Group Policy** tab, select the policy in the upper area and click the **Edit** button. The *Group Policy* window is displayed.

24. Expand the **Computer Configuration** tree and the **Software Settings** node.

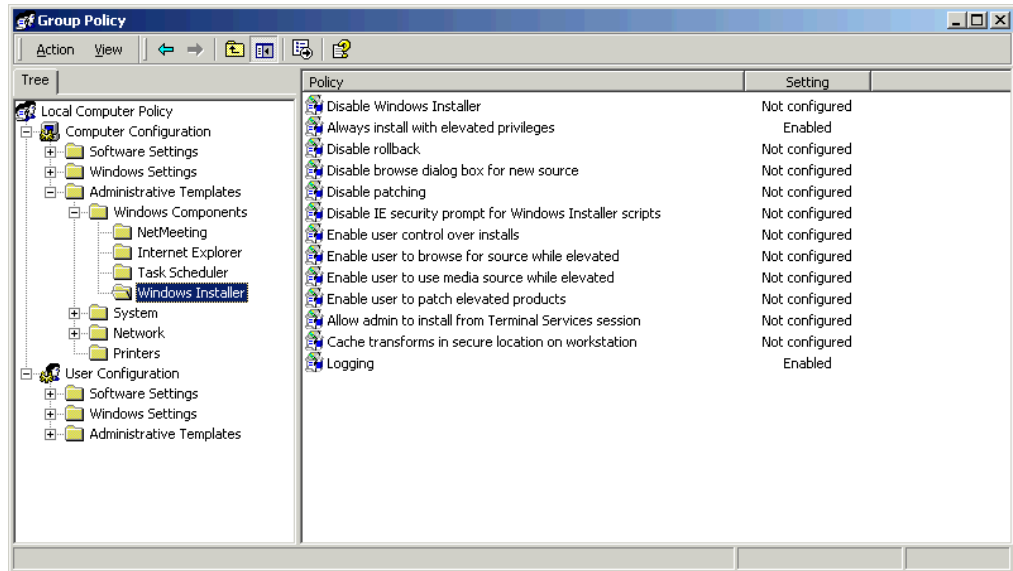


25. Right-click **Software installation** and select **New** then **Package**.
26. Browse to the shared folder and select the *WorkshareCompare.msi* file.
27. Click **Open**. The *Deploy Software* dialog is displayed.



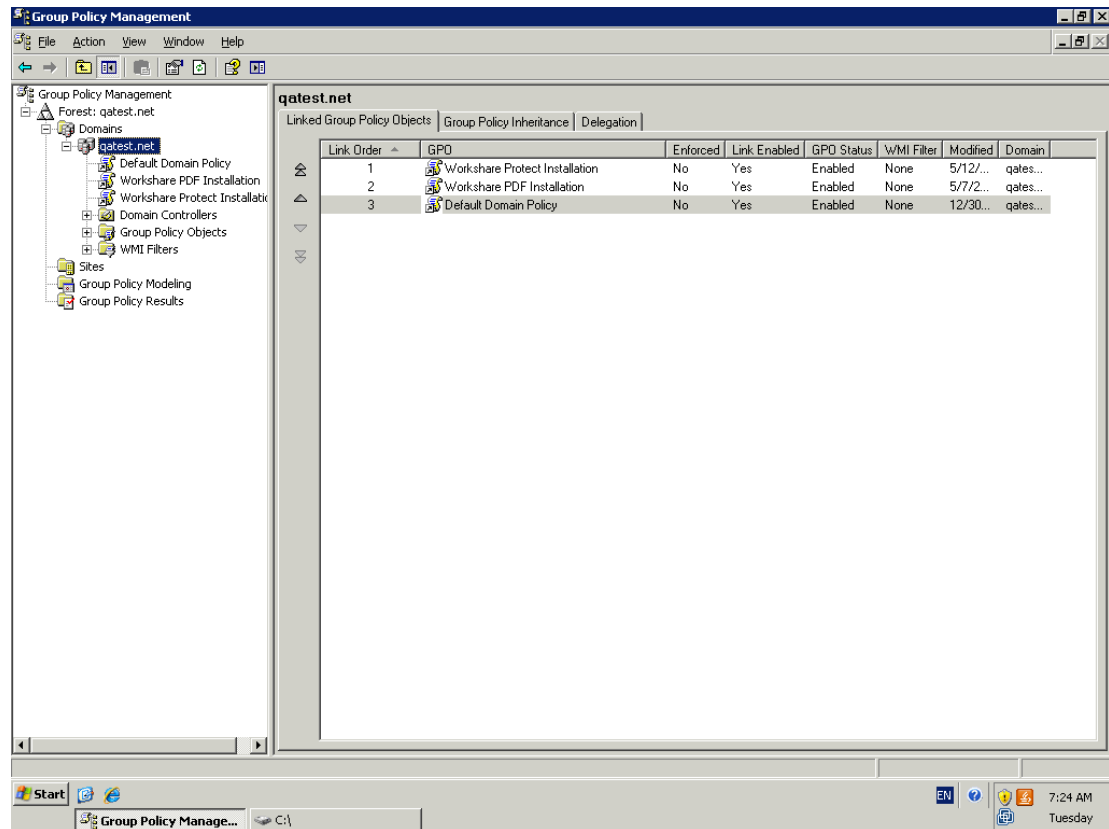
28. Ensure that the **Advanced published or assigned** option is selected and click **OK**.
29. In the **Modifications** tab, click **Add**.
30. Browse to the transform (MST) file created in steps 4 to 13 and click **Open**.
31. Click **OK**.
32. In the *Group Policy* window, expand the **Administrative Templates** node and then the **Windows Components** node.
33. Select **Windows Installer**.
34. On the right side of the *Group Policy* window, double-click **Logging**.

35. Select the **Enabled** radio button and in the **Logging** field, enter **voicewarmup**.
36. Click **OK**. Logging of Windows Installer is now enabled. The log file generated will be in the format **msi<random letters and numbers>.log**.



37. Close the *Group Policy* window and close the organization unit's *Properties* window.
38. Repeat steps 15 to 36 for other organizational units to select all the users (machines) to which you want to deploy Workshare Compare.

Repeat the procedure above for the `WorksharePDFConverter.msi`. Ensure the precedence of the group policy objects is specified as shown below.



The Workshare Compare package is now ready to be deployed on a per-machine basis. The next time the client machines are rebooted, Workshare Compare will be installed.

**Note:** Client machines may have to be rebooted more than once depending on their configuration.

## Assigned/Published to User Methods

In general, it is not recommended to deploy Workshare Compare using the assigned to user or published to user methods. These methods do not complement the way Workshare Compare works for the following reasons:

- If all previous installations of Workshare were assigned to machine installs, a subsequent assigned/published to user install will not remove previous versions of Workshare.
- The Workshare Compare application is not designed to support user isolation for either assigned or published to user in Active Directory deployment. Whilst Workshare Compare will operate normally for the user for which it is installed, it will also be partially visible to other users - other users on the machine will see the Workshare menu but will not be able to use it. If an application has been assigned or published to a user, another user should not be able to see it or operate it at all.

**Note:** With Workshare Compare, another user has the Workshare menu and button (not the Workshare Panel) in Microsoft Word but when a menu option or the button is clicked, the error: "**WinWord.exe Unable to perform request: Unexpected exception**" is displayed.

## Published to User

The published to user method does not install the software but it installs 'entry points' so that it looks to the user like the software is installed. However, the software is not installed until it is used - when an 'entry point' is activated, the software is installed. An 'entry point' can be things like a desktop shortcut, a start menu shortcut, a file extension or a template.

For example, if publishing Adobe Acrobat to a user, the following would happen:

- Shortcuts are placed wherever Adobe Acrobat has assigned its shortcuts (such as the desktop and start menu).
- File extension associations for PDF are linked to Adobe Acrobat.
- The software will then install if the user either attempts to click on one of the shortcuts or attempts to open a .PDF.

The published to user method uses a technology called JIT (just-in-time). This enables an administrator to deploy the software to every user (for example) and the software will only be actually installed to the users that require it. This saves on bandwidth, licensing and workstation disk space.

With Workshare Compare, there are no valid entry points.

- There are no shortcuts that users click on to launch Workshare Compare (it is opened via Microsoft Word).
- The Workshare Compare startup template is placed into the Microsoft Word Startup directory. If this were to be made into an entry point, Workshare Compare would install whenever Microsoft Word is opened which would defeat the purpose of JIT installations.
- Workshare Compare does not have a file extension other than W3 files but users will not be opening these files.

The only feature that will work with published to user is the "add new software" entry under add/remove programs.

## SMS Deployment Guidelines

This section describes how to deploy Workshare Compare using Microsoft SMS 2003.

Microsoft SMS 2003 allows many different options for the deployment of applications. The following table indicates some of the principal configuration options and describes the effect of changing a given value on the installation of Workshare Compare.

| Location of Option                   | SMS Option                                  | Setting   | Comment  |
|--------------------------------------|---|---|--|
| Packages>Programs > Requirements Tab | "Estimated disk space"                      | <variable>  | Optional setting – the installation will fail if the disk usage is greater than this value.  |
|                                      | "Maximum allowed run time"                  | <variable>  | Optional setting – the installation will fail if it takes longer than the specified time.  |
|                                      | "This program can run on any platform"      | On/Off  | Optional setting – extra validation to ensure the program is only deployed to expected client machines.  |
| Packages>Programs > Environment Tab  | "Program can run"                           | "Only when a user is logged on"<br>"Whether or not a user is logged on"<br>"Only when no user is logged on" | Determines when the installation may be run.   |
|                                      | "Allow Users to interact with this program" | On/Off  | Runs the installation with or without UI. This setting overwrites any other settings, eg –autorun specified when installing using the Workshare.InstallWizard.exe.             |
|                                      | "Run with user's rights"                    | On/Off  | Determines credentials used to deploy application (best practice is to select "Run with administrative rights" – the installation may fail without administrative privileges). |
|                                      | "Run with administrative rights"            | On/Off  | Best practice setting – uses specified administrative privileges to install the program.   |
| Packages>Program> Advanced tab       | "Run another program first"                 | On/Off  | Allows users to specify pre-requisite packages or programs.  |
|                                      | "Run this other program every time"         | On/Off  | Specifies that the pre-requisite program is run each time the package is run.  |

| Location of Option                    | SMS Option  | Setting    | Comment  |
|---------------------------------------|---|------------|--|
| Packages>Package><br>Data Source Tab  | "This package contains source files"                          | On/Off     | Determines whether the package contains the source files for the installation.   |
|                                       | "Update distribution points on a schedule"                    | On/Off     | Optional setting – used if source files for a package are changed regularly, a schedule for the update may be specified. |
| Packages>Package><br>Data Access      | "Access distribution folder through common SMS package share" | On/Off     | Specifies that the package is accessed from the local machine.   |
|                                       | "Share distribution folder"                                   | <variable> | Optional setting – use if you wish the package to be stored on a remote distribution point.                              |
| Advertisements><br>Schedule tab       | "Mandatory Assignments"                                       | <variable> | Optional setting – configures if the user is able to deploy package or not.  |
|                                       | "Allow users to run the program independently of assignments" | On/Off     | Optional setting – configures if a user can install a program from Add/Remove Programs.                                  |
|                                       | "Advertisement will expire"                                   | <variable> | Optional setting – configures if the advertisement is available for a limited period.                                    |
| Advertisement><br>Advanced Client tab | "Run program from distribution point"                         | On/Off     | Configures the location from where the package will be installed..   |
|                                       | "Download program from distribution point"                    | On/Off     | Configures the program to be copied locally before it is installed.  |

## Deployment of Executable Files

The following procedure will deploy the Workshare Compare executable with the following settings configured:

- No user interaction.
- The executable is configured to run from a network location and not the client machine.
- The installation will be mandatory and will run with or without a user's permission.

The steps below assume that the pre-requisites for Workshare Compare are already installed.

### To deploy the Workshare Compare executable using SMS:

1. Launch the SMS Server Administration Console.

2. Expand the **Site Database** node.
3. Right click the **Packages** node and select **New** and then **Package**. The *Package Properties* dialog is displayed with the **General** tab selected.
4. Specify a **Name** for the package.
5. Optional - specify the **Version** of the package.
6. Optional - specify the **Publisher** of the package.
7. Optional – specify the **Language** of the package.
8. Optional – enter a **Comment**.
9. Select the **Data Source** tab.
10. Select the This package contains source files checkbox.
11. Click the **Set...** button. The *Set Source Directory* dialog is displayed.
12. Select the **Local drive on site server** radio button and click **Browse....** The *Browse for Folder* dialog is displayed.
13. Select the source directory and click **OK**.
14. Click **OK** in the *Set Source Directory* dialog.
15. Select the **Data Access** tab.
16. Verify that the Access distribution folder through common SMS package share radio button is selected.
17. Click **OK** in the *Package Properties* dialog.
18. Expand the **<Package Name>** node.
19. Right-click the **Programs** node and select **New** and then **Program**. The *Program Properties* dialog is displayed with the General tab selected.
20. Specify a **Name** for the program.
21. Optional – enter a **Comment**.
22. Click **Browse....** The *Open* dialog is displayed.
23. Browse to the location of the Workshare install, select the executable and click **Open**. In the **Command Line** field, add the required parameters to configure the install of Workshare Compare. Refer to page *Deploying Workshare Compare with the Self-Extracting Executable*, page 72, for more information. In this example, -product "Workshare Compare" –silent would be required.
24. Select the **Requirements** tab.
25. Optional – specify a value for the **Estimated disk space**.
26. Optional – specify a value for the **Maximum allowed run time**.
27. Optional – select the **This program can run only on specified client platforms** radio button and specify the necessary platform(s) in the field below.
28. Select the **Environment** tab.

29. Select the **Run with administrative rights** radio button.
30. Optional – select the **Allow users to interact with this program** checkbox. This setting configures whether the application is installed silently.
31. Select the **Advanced** tab.
32. Optional – select the **Run another program first** checkbox.
33. Optional – select the necessary “package” or “program” from the dropdown fields. This setting can be used to install pre-requisites.
34. Optional – select the **Run this program every time** checkbox if you wish that the pre-requisite package or program be run each time a package is run.
35. Select **OK** in the *Program Properties* dialog.
36. Right-click the **Access Accounts** node and select **New** and then **Windows User Access Account**. The *Access Account Properties* dialog is displayed.
37. Click **Set**. The *Windows User Account* dialog is displayed.
38. Specify the domain user account and click **OK**.
39. In the *Access Account Properties* dialog change the value of the **Permissions** dropdown to **Full Control** and click **OK**.
40. Right-click the **Distribution Points** node and select **New** and then **Distribution Point**. The *New Distribution Points Wizard* is displayed.
41. Select the **Don't show this page in future** checkbox and click **Next>**. The *Copy Package* dialog is displayed.
42. Select the required distribution point and click **Finish**.
43. Right click the **Advertisements** node and select **New** and then **Advertisement**. The *Advertisement Properties* dialog is displayed.
44. Specify a value for the **Name**.
45. Optional – specify a **Comment**.
46. Select a package from the **Package** dropdown.
47. Select a program from the **Program** dropdown.
48. Click **Browse....** The *Browse Collection* dialog is displayed.
49. Select the required collection and click **OK**.
50. Select the **Schedule** tab.
51. Select the \* button to generate a mandatory assignment. The *Assignment Schedule* dialog is displayed.
52. Select the **Assign immediately after this event** radio button.
53. Ensure that **As soon as possible** is displayed in the dropdown and click **OK**.
54. Select the **Advanced Client** tab.

55. Optional – select the Download Program from distribution point button.

56. Click **OK** in the *Advertisement Properties* dialog.

The `Workshare.InstallWizard.exe` may also be specified at Step 13 as the "program" for deployment. If deploying Workshare Compare in this way, ensure that the contents of the self-extracting `WorkshareProtect-9800.XXX.exe` are all stored at the same location as the Install Wizard.

## Deployment of Applications Using MSI Files

The following procedure will deploy Workshare Compare using the msi with the following settings configured:

- User interaction.
- The executable is configured to run from the client machine.
- The installation will be optional.

### To deploy the Workshare Compare msi using SMS:

1. Launch the SMS Administrator Console.
2. Launch the SMS Server Administration Console.
3. Expand the **Site Database** node.
4. Right click the **Packages** node and select **New** and then **Package**. The *Package Properties* dialog is displayed with the **General** tab selected.
5. Specify a **Name** for the package.
6. Optional - specify the **Version** of the package.
7. Optional - specify the **Publisher** of the package.
8. Optional – specify the **Language** of the package.
9. Optional – enter a **Comment**.
10. Select the **Data Source** tab.
11. Select the This package contains source files checkbox.
12. Select the **Set...** button. The *Set Source Directory* dialog is displayed.
13. Select the **Local drive on site server** radio button and click **Browse**. The *Browse for Folder* dialog is displayed.
14. Select the source directory and click **OK**. The *Set Source Directory* dialog is displayed.
15. Click **OK**.
16. Select the Data Access tab. Verify that the Access distribution folder through common SMS package share radio button is selected.
17. Select **OK** in the *Package Properties* dialog.
18. Expand the **<Package Name>** node.

19. Right-click the **Programs** node and select **New** and then **Program**.
20. Specify a **Name** for the program.
21. Optional – enter a **Comment**.
22. Select **Browse...** . The *Open* dialog is displayed.
23. Select the *WorksharePdfConverter.msi* and click **OK**.
24. In the **Command Line** field of the *Program Properties* dialog, add the required parameters to configure the installation of *Workshare Compare*. Refer to *Installation Procedure Using the MSI Files Directly*, page 73, for more information. In this example, */qn* would be required.
25. Select the **Environment** tab.
26. Select the **Run with administrative rights** radio button.
27. Click **OK**.
28. Right-click the **Programs** node and select **New** and then **Program**.
29. Specify a **Name** for the program.
30. Optional – enter a **Comment**.
31. Click **Browse...** . The *Open* dialog is displayed.
32. Select the *WorkshareCompare.msi* (change the **Files of Type** filter to **All Files (\*.\*)** to view the file) and click **OK**.
33. In the **Command Line** field in the *Program Properties* dialog append to the existing text the *msi* parameters necessary to deploy the *WorkshareCompare.msi*. Consult the *Workshare Compare Installation Guide* for more information.
34. Select the **Environment** tab.
35. Select the **Run with administrative rights** radio button.
36. Select the **Advanced** tab.
37. Select the **Run another program first** checkbox.
38. From the **Package** dropdown select the package that contains the *WorksharePdfConverter.msi* program.
39. From the **Program** dropdown select the disabled features program.
40. Select the **Run this other program every time** checkbox.
41. Right-click the **Access Accounts** node and select **New** and then **Windows User Access Account**. The *Access Account Properties* dialog is displayed.
42. Click **Set**. The *Windows User Account* dialog is displayed.
43. Specify the domain user account and click **OK**.
44. In the *Access Account Properties* dialog change the value of the **Permissions** dropdown to **Full Control** and click **OK**.

45. Right-click the **Distribution Points** node and select **New** and then **Distribution Point**. The *New Distribution Points Wizard* is displayed.
46. Select the **Don't show this page in future** checkbox and click **Next>**. The *Copy Package* dialog is displayed.
47. Select the required distribution point and click **Finish**.
48. Right click the **Advertisements** node and select **New** and then **Advertisement**. The *Advertisement Properties* dialog is displayed.
49. Specify a value for the **Name**.
50. Optional – specify a **Comment>**.
51. Select a package from the **Package** dropdown.
52. Select **Workshare** from the **Program** dropdown. This is to ensure that Workshare is installed – the ordering of the programs will ensure that the programs are installed in the correct order.
53. Click **Browse...** The *Browse Collection* dialog is displayed.
54. Select the required collection and click **OK**.
55. Select the **Advanced Client** tab.
56. Select the Download program from the distribution point radio button.
57. Click **OK**.

The package will be advertised to the members of the selected collection and may be installed from Add/Remove Programs.

## Glossary

|                              |  |
|------------------------------|--|
| <b>Server Locator Point</b>  | An SMS 2003 site system that locates CAPs and management points for SMS clients.   |
| <b>DDR</b>                   | (Discovery Data Record) The file format and the actual file that reports discovery to an SMS site database.  |
| <b>Distribution Point</b>    | A site system that has the distribution point role and stores package source files. Clients contact distribution points to obtain source files when they run programs that are advertised to them through a client access point or management point.               |
| <b>Client Agent</b>          | Software that runs on SMS clients to perform specific functions. For example, the Software Metering Client Agent reports the applications that ran on the client to the site.  |
| <b>Management Point</b>      | The SMS site system that serves as the primary point of contact between the Advanced Clients and the SMS site server.  |
| <b>Package</b>               | An object that contains the files and instructions for distributing software to a distribution point and executing the package on SMS clients targeted by advertisements.  |
| <b>Advertisement Program</b> | A program that has been advertised to a collection, but that the clients are not required to run.  |
| <b>Collection</b>            | A set of resources in a site. The set is defined by membership rules. Collections are used to distribute software, view the inventories of clients, and access clients for remote control of sessions. An example of a collection is "All Windows NT 4.0 Systems". |
| <b>Assigning</b>             | In Windows 2000, Windows XP, the Windows Server 2003 family, and systems Management Server (SMS), to deploy a program to members of a group, where installation of the program is mandatory.   |

# Appendix A. Additional Msiexec.exe Parameters and Switches

The executable program that interprets packages and installs products is msiexec.exe. Note that msiexec also sets an error level on return that corresponds to system error codes. The following table describes the parameters and switches for this program. For the latest Msiexec.exe Parameters and Switches, please refer to <http://msdn2.microsoft.com/en-us/library/aa367988.aspx>.

| Switch | Parameters                                     | Meaning  |
|--------|--|--|
| /i     | Package   ProductCode                          | Installs or configures a product.  |
| /f     | [p o e d c a u m s v]<br>Package   ProductCode | Repairs a product. This option ignores any property values entered on the command line. The default argument list for this option is 'pecms'. This option shares the same argument list as the REINSTALLMODE property.<br><p>p Reinstall only if file is missing.</p> <p>o Reinstall if file is missing or if an older version is installed.</p> <p>e Reinstall if file is missing or an equal or older version is installed.</p> <p>d Reinstall if file is missing or a different version is installed.</p> <p>c Reinstall if file is missing or the stored checksum does not match the calculated value. Only repairs files that have msidbFileAttributesChecksum in the Attributes column of the File table.</p> <p>a Force all files to be reinstalled.</p> <p>u Rewrite all required user specific Registry entries.</p> <p>m Rewrite all required computer-specific Registry entries.</p> <p>s Overwrite all existing shortcuts.</p> <p>v Run from source and re-cache the local package. Do not use the v reinstall option for the first installation of an application or feature.</p> |
| /a     | Package  | Administrative installation option. Installs a product on the network.   |
| /x     | Package   ProductCode                          | Uninstalls a product.  |

| Switch | Parameters   | Meaning  |
|--------|--|--|
| /j     | [u m]Package<br>or<br>[u m]Package /t Transform List<br>or<br>[u m]Package /g LanguageID | <p>Advertises a product. This option ignores any property values entered on the command line.</p> <ul style="list-style-type: none"> <li>u Advertise to the current user.</li> <li>m Advertise to all users of machine.</li> <li>g Language identification.</li> <li>t Applies transform to advertised package.</li> </ul>   |
| /L     | [i w e a r u c m o p v + !]Logfile   | <p>Specifies path to log file and the flags indicate which information to log.</p> <ul style="list-style-type: none"> <li>i Status messages</li> <li>w Non-fatal warnings</li> <li>e All error messages</li> <li>a Start up of actions</li> <li>r Action-specific records</li> <li>u User requests</li> <li>c Initial UI parameters</li> <li>m Out-of-memory or fatal exit information</li> <li>o Out-of-disk-space messages</li> <li>p Terminal properties</li> <li>v Verbose output</li> <li>+ Append to existing file</li> <li>! Flush each line to the log</li> <li>"*" Wildcard, log all information except for the v option. To include the v option, specify "/!*v".</li> </ul> |

| Switch   | Parameters   | Meaning  |
|----------|--------------|--|
| /m       | filename     | <p>Generates an SMS status .mif file. Must be used with the install (-i), remove (-x), administrative installation (-a), or reinstall (-f) options. The ISMIF32.DLL is installed as part of the SMS and must be on the path.</p> <p>The fields of the status mif file are filled with the following information:</p> <p>Manufacturer - Author<br/>                     Product - Revision Number<br/>                     Version - Subject<br/>                     Locale - Template<br/>                     Serial Number - not set<br/>                     Installation - set by ISMIF32.DLL to "DateTime"<br/>                     InstallStatus - "Success" or "Failed"</p> <p>Description - Error messages in the following order: 1) Error messages generated by installer. 2) Resource from Msi.dll if install could not commence or user exit. 3) System error message file. 4) Formatted message: "Installer error %i", where %i is error returned from Msi.dll</p> |
| /p       | PatchPackage | <p>Applies a patch. To apply a patch to an installed administrative image you must combine options as follows:</p> <p>/p &lt;PatchPackage&gt; /a &lt;Package&gt;</p>   |
| /q       | n b r f      | <p>Sets user interface level.</p> <p>q No UI<br/>                     qn No UI<br/>                     qb Basic UI. Use qb! to hide the Cancel button.<br/>                     qr Reduced UI with no modal dialog displayed at the end of the installation.<br/>                     qf Full UI and any authored FatalError, UserExit, or Exit modal dialogues at the end.<br/>                     qn+ No UI except for a modal dialog displayed at the end.<br/>                     qb+ Basic UI with a modal dialog displayed at the end. The modal box is not displayed if the user cancels the installation. Use qb+! or qb!+ to hide the Cancel button.<br/>                     qb- Basic UI with no modal dialogues. Please note that /qb+- is not a supported UI level. Use qb-! or qb!- to hide the Cancel button.</p> <p>Note that the ! option is available with Windows Installer version 2.0 and works only with basic UI. It is not valid with full UI.</p>    |
| /? or /h |              | <p>Displays copyright information for the Windows Installer.</p>   |

| Switch | Parameters | Meaning   |
|--------|------------|---|
| /y     | Module     | <p>Calls the system API DllRegisterServer to self-register modules passed in on the command line. For example, <code>msiexec /y my_file.dll</code>.</p> <p>This option is only used for Registry information that cannot be added using the Registry tables of the MSI file.</p>  |
| /z     | Module     | <p>Calls the system API DllUnRegisterServer to unregister modules passed in on the command line. For example, <code>msiexec /z my_file.dll</code>.</p> <p>This option is only used for Registry information that cannot be removed using the Registry tables of the MSI file.</p> |

The options /i, /x, /f[p|o|e|d|c|a|u|m|s|v], /j[u|m], /a, /p, /y and /z should not be used together. The one exception to this rule is that patching an administrative installation requires using both /p and /a. The options /t and /g should only be used with /j. The options /l and /q can be used with /i, /x, /f[p|o|e|d|c|a|u|m|s|v], /j[u|m], /a, and /p.

## Appendix B. Configuring Workshare Compare

This appendix describes how to configure the Workshare Compare standalone application to customize its behavior to suit your organization's requirements. It includes the following sections:

- **Introducing the Workshare Compare Configuration Manager**, below, provides an overview of the Workshare Compare Configuration Manager, which is used to configure Workshare Compare.
- **Workshare Compare Configuration Parameters**, page 101, provides a detailed description of all the Workshare Compare configuration parameters.

### Introducing the Workshare Compare Configuration Manager

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The Workshare Compare Configuration Manager enables you to configure Workshare Compare individually and the way it behaves with Document Management Systems and email clients.

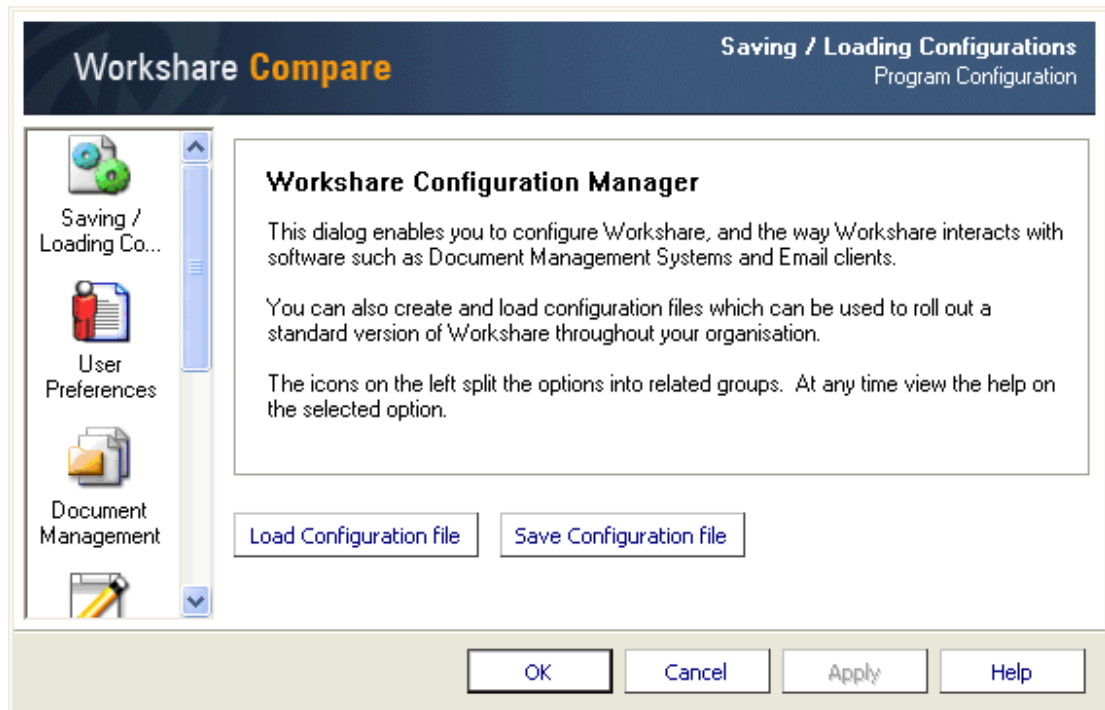
Some of the configuration options can also be set from the Workshare Configuration Manager, for example Document Management, Registration and Security.

**To access the Workshare Compare Configuration Manager:**

Open the Workshare Compare Configuration Manager from the Workshare Compare main window in one of the following ways:

- In the Classic interface, from the *File* menu, select **Preferences** and then **Workshare Compare Configuration**.
- In the Ribbon interface, from the Logo menu, select **Preferences** and then **Workshare Compare Configuration**.

The Workshare Compare Configuration Manager is displayed with the Saving/Loading Configurations page open.



The configuration parameters for Workshare Compare are grouped into categories. The categories appear in the left pane of the Workshare Compare Configuration Manager. Selecting a category displays the parameters for that category in the right pane of the Workshare Compare Configuration Manager. The different categories and their parameters are described in *Workshare Compare Configuration Parameters*, below.

You can save and load configuration files in the same way as you do in the Workshare Configuration Manager, described in *Chapter 3: Configuration*.

## Workshare Compare Configuration Parameters

The parameters for Workshare Compare are grouped into the following categories:

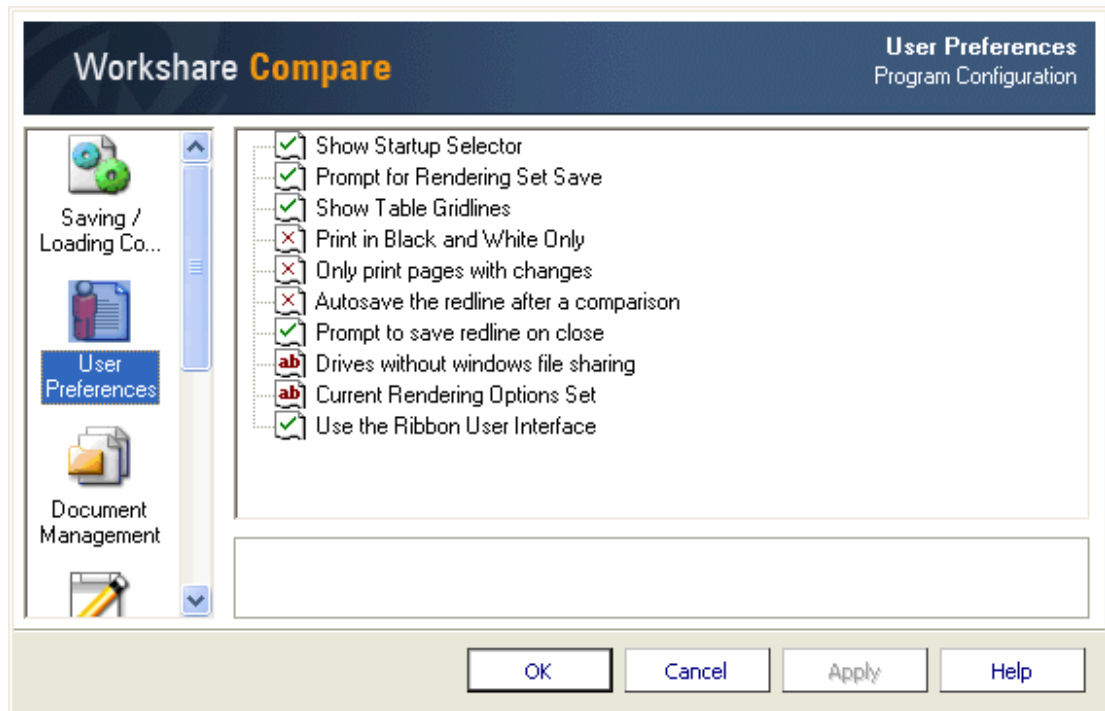
- User Preferences, page 101.
- Administration, page 104.
- Document Management, page 103.
- Registration, page 104.
- OCR, page 110.
- Security, page 110.

**Note:** You may find that the categories appear in a different order to the one shown here.

The categories appear in the left pane of the Workshare Compare Configuration Manager. Selecting a category displays the parameters for that category in the right pane of the Workshare Compare Configuration Manager. The different categories and their parameters are described in the following sections.

### User Preferences

The **User Preferences** category includes parameters that enable you to specify how documents are displayed in Workshare Compare as well as how Workshare Compare functions in specified situations.



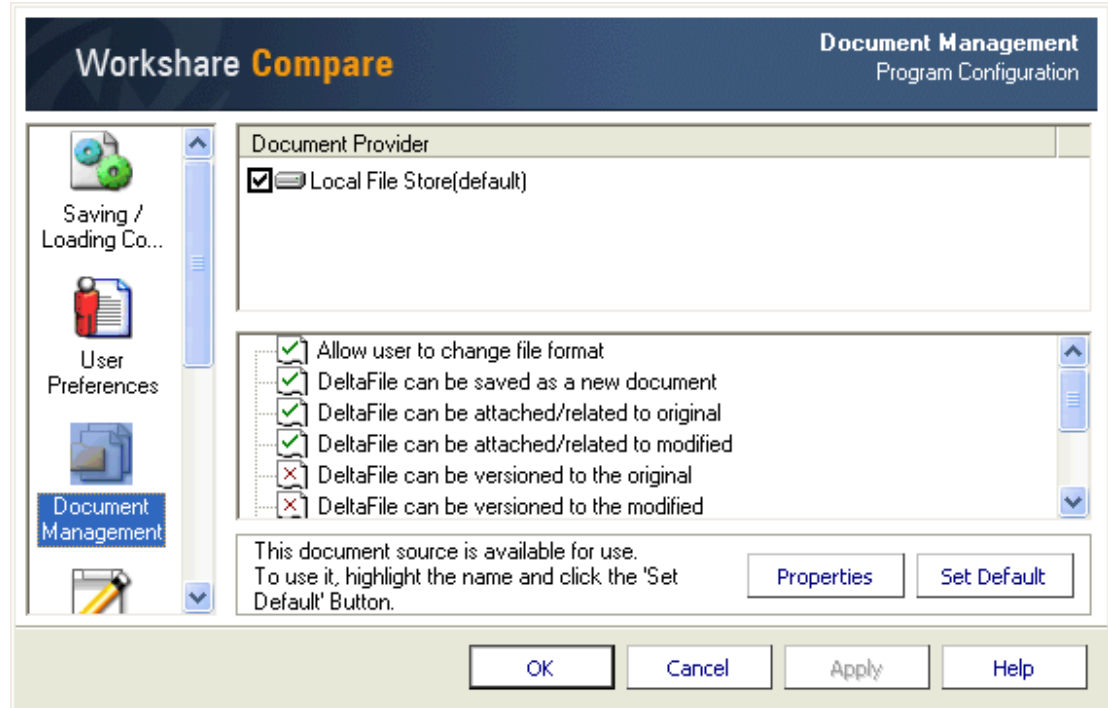
The parameters are displayed in the upper area of the right pane. Selecting a parameter enables you to specify that parameter in the lower area of the right pane.

The User Preferences parameters are described in the following table:

| Parameter                                      | Description   |
|--|---|
| <b>Show Startup Selector</b>                   | If selected, the <i>Document Selection</i> dialog is displayed automatically when Workshare Compare is launched.  |
| <b>Prompt for Rendering Set Save</b>           | If selected, when a user is creating their own rendering set options, they are prompted to save their changes under a different name.   |
| <b>Show Table Gridlines</b>                    | If selected, table gridlines are displayed in the Redline view.   |
| <b>Print in Black and White Only</b>           | If selected, the <b>Print Redline in black and white</b> checkbox in the <i>Print</i> dialog is selected by default. This option specifies that Redline documents are printed in monochrome (black and white).  |
| <b>Only print pages with changes</b>           | If selected, the <b>Only print pages with changes</b> checkbox in the <i>Print</i> dialog is selected by default. This option specifies that only the pages in Redline documents that include changes are printed.  |
| <b>Autosave the redline after a comparison</b> | If selected, the Redline document is automatically saved after each comparison.   |
| <b>Prompt to save redline on close</b>         | If selected, when closing Workshare Compare, a message is displayed prompting the user to save the Redline document.  |
| <b>Drives without windows file sharing</b>     | If you are running NFS Hummingbird to map drives, you can enter the drive letters to which you want to save Redline documents.  |
| <b>Current Rendering Options Set</b>           | Displays (read-only) which rendering set is currently being used.   |
| <b>Use the Ribbon User Interface</b>           | If selected, the Compare application adopts the Ribbon user interface as the default view. When not selected, the Compare application uses the Classic user interface as the default view.<br><br>You can switch between interfaces by clicking <b>Classic View</b> in the View Ribbon or selecting <b>Ribbon View</b> from the <i>View</i> menu. |

## Document Management

The **Document Management** category includes parameters that enable you to configure with which document providers Workshare Compare integrates and to specify the behavior of the Redline document.



In the upper area of the right pane, the type of document management system you have is displayed. You specify the default document source by selecting a document provider and clicking **Set Default**.

You specify the properties of a document source by selecting a document provider and clicking **Properties**.

The Document Management parameters are displayed in the middle area of the right pane. Selecting a parameter enables you to specify that parameter in the lower area of the right pane.

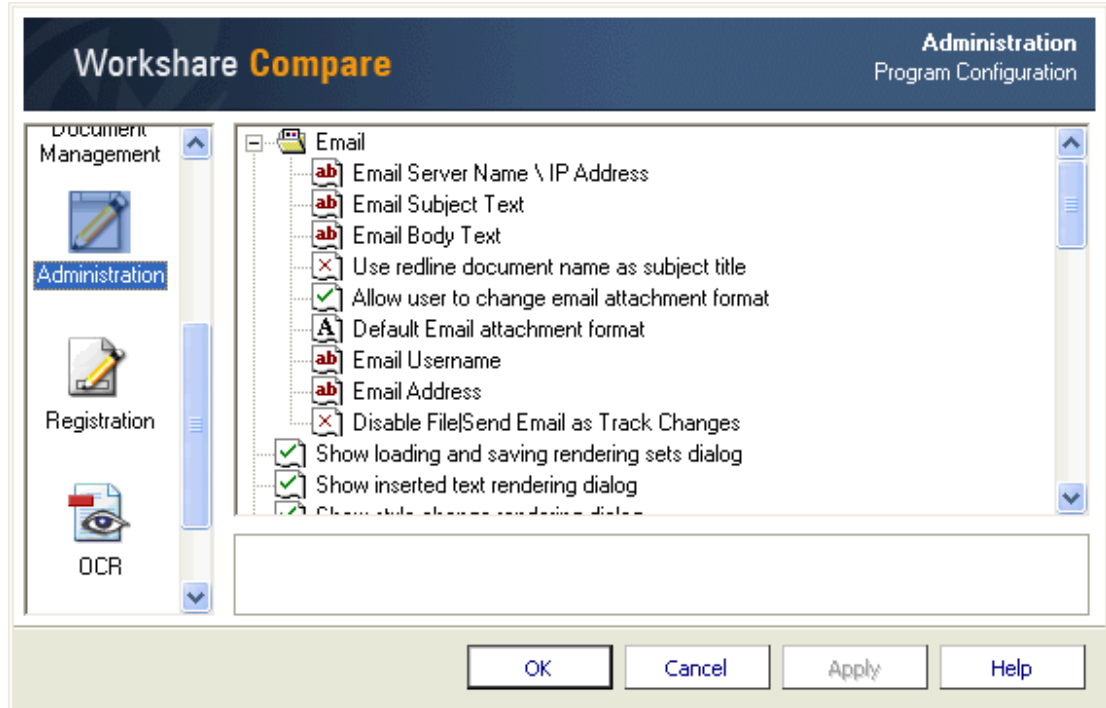
The Document Management parameters are described in the following table:

| Parameter  | Description   |
|--|---|
| <b>Allow user to change file format</b>              | If selected, the file format can be changed when saving the Redline document.   |
| <b>DeltaFile can be saved as a new document</b>      | If selected, the Redline document can be saved as a new document.   |
| <b>DeltaFile can be attached/related to original</b> | If selected and when using DOCS Open or PowerDOCS, the Redline document can be saved as an attachment to the original document.<br>When using Interwoven, the Redline document can be saved as a related document to the original document. |

| Parameter  | Description  |
|--|--|
| <b>DeltaFile can be attached/related to modified</b>                     | If selected and when using DOCS Open or PowerDOCS, the Redline document can be saved as an attachment to the modified document.<br>When using Interwoven, the Redline document can be saved as a related document to the modified document.  |
| <b>DeltaFile can be versioned to the original</b>                        | If selected and when using DOCS Open, PowerDOCS or Interwoven, the Redline document can be saved as a version of the original document.  |
| <b>DeltaFile can be versioned to the modified</b>                        | If selected and when using DOCS Open, PowerDOCS or Interwoven, the Redline document can be saved as a version of the modified document.  |
| <b>Enable Extended Save Formats</b>                                      | If selected, the user can choose a file format that is support by Microsoft Word when saving Redline documents.  |
| <b>Delay connection to DOCS Open network mapping</b>                     | If selected and when using DOCS Open only, the connection between DOCS Open and Workshare Compare is slowed down. Occasionally the connection between Workshare Compare and DOCS Open is too fast. This causes Workshare Compare to use all drive mappings on the client PC. Slowing the connection prevents this from happening.  |
| <b>Display document description as well as document id</b>               | If selected, Workshare Compare displays DMS document descriptions in the Workshare Compare comparison window, where usually it would display document IDs. A DMS document ID is in the form <b>file://c/mydocument.doc</b> , whereas the description is more user friendly, for example, <b>mydocument.doc</b> . This applies to local file store as well as all other DMS integrations. |
| <b>Document Format</b>   | The format of the Redline document when it is saved. You can select from the following: <b>DeltaFile Format, Rich Text Format, Microsoft Word Format, Text Only</b> or <b>Adobe Acrobat</b> .  |
| <b>Set Default Filename for Redline Comparison</b>                       | The default name for a Redline document when it is saved.  |
| <b>Use Doc ID/Doc Numbers as default filename for Redline Comparison</b> | If selected, the document ID or number is used as the default name for a Redline document when it is saved.  |

## Administration

The **Administration** category includes parameters that enable you to specify how Workshare Compare functions in specified situations.



The parameters are displayed in the upper area of the right pane. Selecting a parameter enables you to specify that parameter in the lower area of the right pane.

The Administration parameters are described in the following table:

| Parameter   | Description   |
|---|---|
| <b>EMAIL</b>  |   |
| <b>Email Server Name \ IP Address</b>               | The IP address or name of your email server. The name can be in either of the following forms: “//servername/” or “servername”.   |
| <b>Email Subject Text</b>                           | The text displayed in the <b>Subject</b> field of any emails sent from within Workshare Compare. The default is <b>Workshare Compare Document Distribution</b> .                  |
| <b>Email Body Text</b>                              | The text included in the body of any emails sent from within Workshare Compare. The default is <b>The following files have been attached to this mail by Workshare Compare...</b> |
| <b>Use redline document name as subject title</b>   | If selected, the document name of the Redline document is used in the <b>Subject</b> field of any emails sent from within Workshare Compare.                                      |
| <b>Allow user to change email attachment format</b> | If selected, the format of the document attachments can be changed when emailing from Workshare Compare.  |

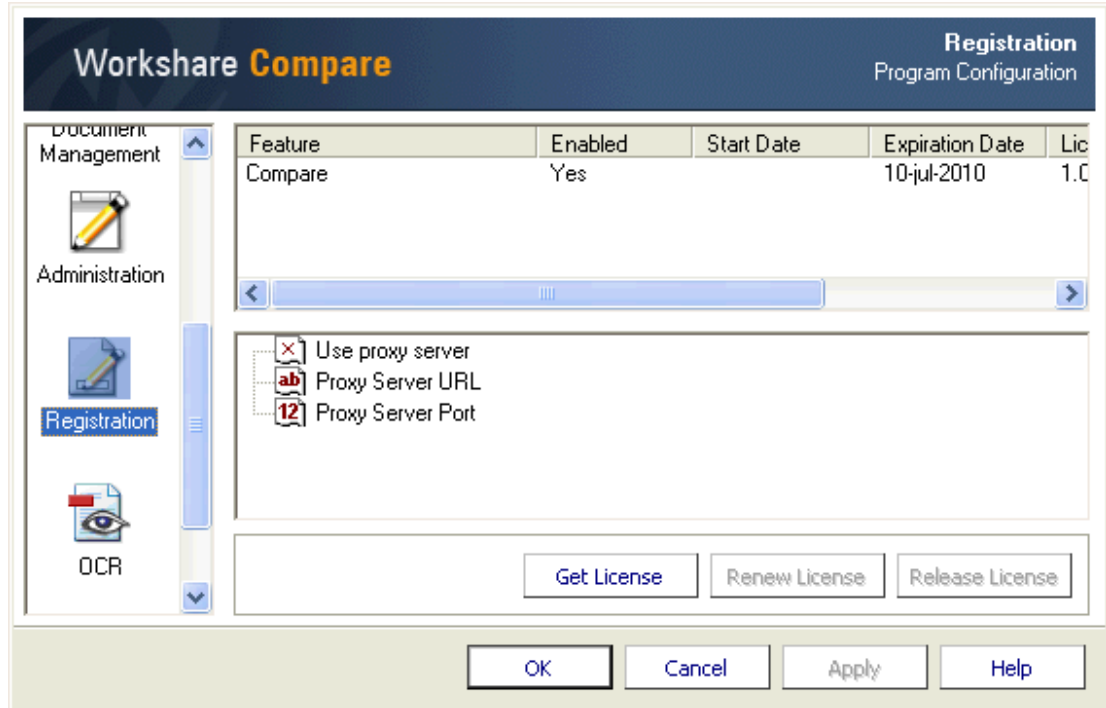
| Parameter  | Description   |
|--|---|
| <b>Default Email attachment format</b>               | The default format of the document attachments when emailing from Workshare Compare (RTF, Microsoft Word or Text).  |
| <b>Email Username</b>                                | Your email user name as it appears in Workshare Compare.  |
| <b>Email Address</b>                                 | Your email address as it appears in Workshare Compare.  |
| <b>Disable File   Send Email as Track Changes</b>    | If selected, disables the <b>Email as Track Changes</b> option. The user is unable to send the Redline document as an RTF document with the changes shown as track changes.   |
| <b>Show loading and saving rendering sets dialog</b> | If selected, the Rendering Set Management page of the Rendering Set Manager is available to the user. From this page, the user is able to save, delete and load rendering sets.<br><br>It is better not to deselect this option as when selected, it enables the user to view the different rendering set options before using one of them. To place limits on the user with regard to rendering sets, you could use the <b>Allow user to Save and Delete rendering sets</b> parameter. |
| <b>Show inserted text rendering dialog</b>           | If selected, the Inserted Text Format page of the Rendering Set Manager is available to the user. From this page, the user is able to change how inserted text appears in the Redline document.   |
| <b>Show style change rendering dialog</b>            | If selected, the Style Change Format page of the Rendering Set Manager is available to the user. From this page, the user is able to determine how changes to styles are displayed in the Redline document.   |
| <b>Show deleted text rendering dialog</b>            | If selected, the Deleted Text Format page of the Rendering Set Manager is available to the user. From this page, the user is able to change how deleted text is displayed in the Redline document.  |
| <b>Show moved text rendering dialog</b>              | If selected, the Moved Text Format page of the Rendering Set Manager is available to the user. From this page, the user is able to change how moved text is displayed in the Redline document.  |
| <b>Show readability dialog</b>                       | If selected, the Readability Options page of the Rendering Set Manager is available to the user. From this page, the user is able to change readability options in the Redline document.  |
| <b>Show font format rendering dialog</b>             | If selected, the Font Change Format page of the Rendering Set Manager is available to the user. From this page, the user is able to change how font changes are displayed in the Redline document.  |
| <b>Show change numbers rendering dialog</b>          | If selected, the Change Numbering Format page of the Rendering Set Manager is available to the user. From this page, the user is able to switch change numbering on and off in the Redline document and change how change numbering is displayed.   |
| <b>Show document statistics rendering dialog</b>     | If selected, the Redline Options page of the Rendering Set Manager is available to the user. From this page, the user is able to change how the Redline document is displayed and what information is included with the Redline document.   |

| Parameter   | Description   |
|---|---|
| <b>Show comparison options dialog</b>               | If selected, the Comparison Options page of the Rendering Set Manager is available to the user. From this page, the user is able to change the options used when comparing documents.   |
| <b>Show table format rendering dialog</b>           | If selected, the Table Cell Format page of the Rendering Set Manager is available to the user. From this page, the user is able to set the options for how changes to table cells appear in the Redline document.   |
| <b>Use current instance of Word</b>                 | If selected, then only one instance of Microsoft Word is invoked in memory.   |
| <b>User Rendering Sets File Location</b>            | The location where the user-specific rendering sets are stored.   |
| <b>Server Rendering Sets File Location</b>          | The location where the server-specific rendering sets are stored.   |
| <b>Allow user to Save and Delete rendering sets</b> | If selected, the user is able to save and delete rendering sets.  |
| <b>Allow user to edit redline in wordprocessor</b>  | If selected, the user is able to edit the Redline document in their chosen word processor. The word processor must be configured to open rich text format files (.rtf).<br><br><i>Note: If the user does this, the Redline document is no longer an accurate reflection of the changes between the original and modified documents.</i> |
| <b>Hide configuration dialogs</b>                   | If selected, the user is unable to access the Workshare Compare Configuration Manager. You (the administrator) may want to select this once the correct configuration has been established.   |
| <b>Password protect access to configuration</b>     | The password required for accessing the Workshare Compare Configuration Manager. For extra security, you can password-protect the Workshare Compare Configuration Manager.  |
| <b>Disable File   New</b>                           | If selected, disables the <b>New</b> option. The user is unable to perform a new comparison.  |
| <b>Disable File   Open</b>                          | If selected, disables the <b>Open</b> option. The user is unable to open a Redline document.  |
| <b>Disable File   Close</b>                         | If selected, disables the <b>Close</b> option. The user is unable to close a Redline document.  |
| <b>Disable File   Properties</b>                    | If selected, disables the <b>Properties</b> option. The user is unable to access property information about the Redline document in Workshare Compare.  |
| <b>Disable Web Access</b>                           | If selected, disables <b>Workshare Home Page</b> option.  |
| <b>Disable Email</b>                                | If selected, disables the <b>Email</b> option. The user is unable to send a Redline document by email.  |
| <b>Default Open Location</b>                        | The default location where Workshare Compare looks first for files to open.   |
| <b>Default Save Location</b>                        | The default location where Workshare Compare by default saves files.  |

| Parameter  | Description  |
|--|--|
| <b>Enforce Default Save Location</b>                       | If selected, the user can only save Redline documents in the specified <b>Default Save Location</b> .  |
| <b>Use Right Click Act on Changes</b>                      | If selected, the <b>Act on Changes</b> option is available. This option enables you to implement changes shown in the Redline document using track changes functionality.  |
| <b>Use binary document comparison</b>                      | This setting describes the method used by Workshare Compare to compare your documents. This setting is enabled by default and is the recommended comparison method.<br><br>If you are experiencing issues with the document comparison, your Technical Support representative may request that you disable this option. Otherwise, it is not recommended to change this setting.   |
| <b>Ignore auto list against manual number list changes</b> | If selected, when an automatically formatted list is being compared against a manual list, any changes in the manual list are ignored.<br><br>Generally this parameter should NOT be selected. It should only be selected in circumstances when one of the documents being compared contains automatic list numbering and the other document contains manual list numbering.   |
| <b>Program Files Location</b>                              | Displays (read-only) the directory in which Workshare Compare is installed.  |
| <b>Show loading and saving configuration dialog</b>        | If selected, the loading and saving configuration options in the Workshare Compare Configuration Manager are available to the user.  |
| <b>Cache Word</b>  | If selected, an instance of Microsoft Word is kept in memory when Workshare Compare is in use. This can save time when performing certain operations.<br><br>If not selected, an instance of Microsoft Word is started and stopped on demand.<br><br><i><b>Note:</b> When Microsoft Word starts up invisibly (when <b>Cache Word</b> is selected), it does not initialize its add-ins. If the user then does something to make the instance of Microsoft Word visible (for example, initiates editing a document) then the user will be working with no add-ins initialized.</i><br><br>This parameter is NOT selected by default. |

## Registration

The **Registration** category includes parameters that enable you to specify proxy server settings and update and release licenses for Workshare Compare.



In the upper area of the right pane, license information is displayed. The parameters are displayed in the middle area of the right pane. Selecting a parameter enables you to specify that parameter in the lower area of the right pane.

The Registration parameters are described in the following table:

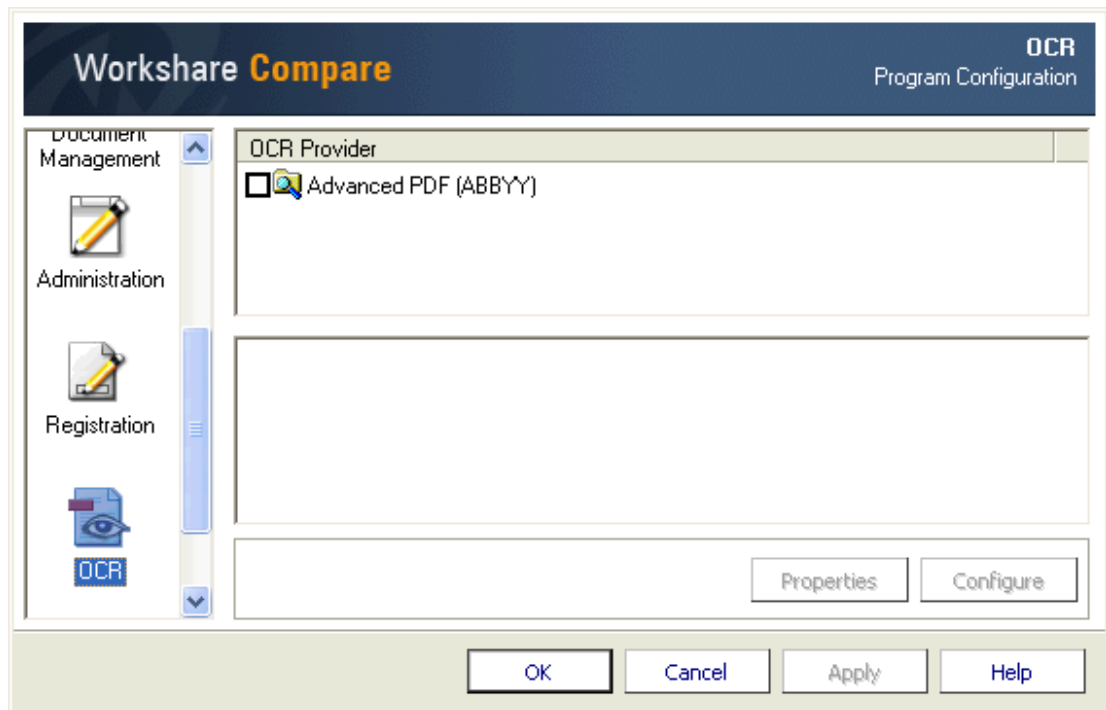
| Parameter                | Description  |
|--------------------------|--|
| <b>Use proxy server</b>  | If selected, enables the use of an Internet proxy server to connect to the Workshare Licensing Authorization Server. |
| <b>Proxy Server URL</b>  | The URL of an Internet proxy server (if used).   |
| <b>Proxy Server Port</b> | The port of an Internet proxy server (if used).  |

The buttons in the right pane are as follows:

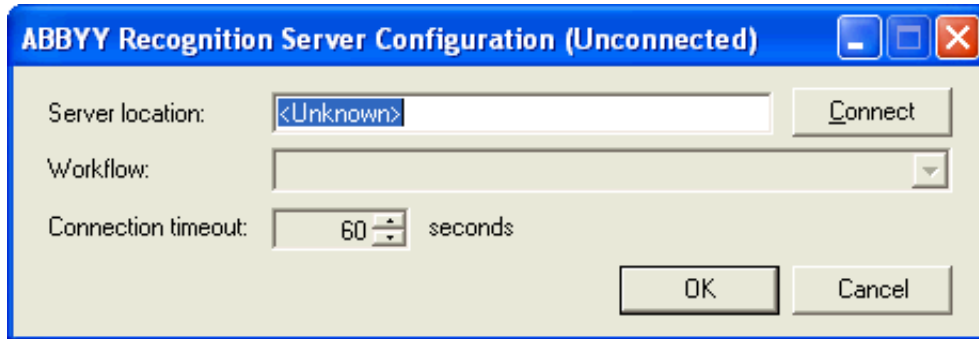
| Parameter              | Description  |
|------------------------|--|
| <b>Get License</b>     | Enables you to enter a Workshare license authorization code. This is then validated by the Workshare Licensing Authorization Server via the Internet.  |
| <b>Renew License</b>   | Enables you to renew an existing license.  |
| <b>Release License</b> | Enables you to release a license from a workstation so that Workshare Compare can be installed and used on another workstation within the organization. This feature is used to enable the redistribution of licenses between workstations within an organization. |

## OCR

The **OCR** category enables you to configure Workshare Compare to integrate with your Workshare OCR Server (powered by ABBYY) to apply OCR to PDFs before performing comparisons.



By checking the **Advanced PDF (ABBYY)** checkbox, you are enabling the option for Workshare Compare to use the Workshare OCR Server for OCR prior to comparing a PDF. If you have not specified your Workshare OCR Server details, the *ABBYY Recognition Server Configuration* dialog is displayed automatically.



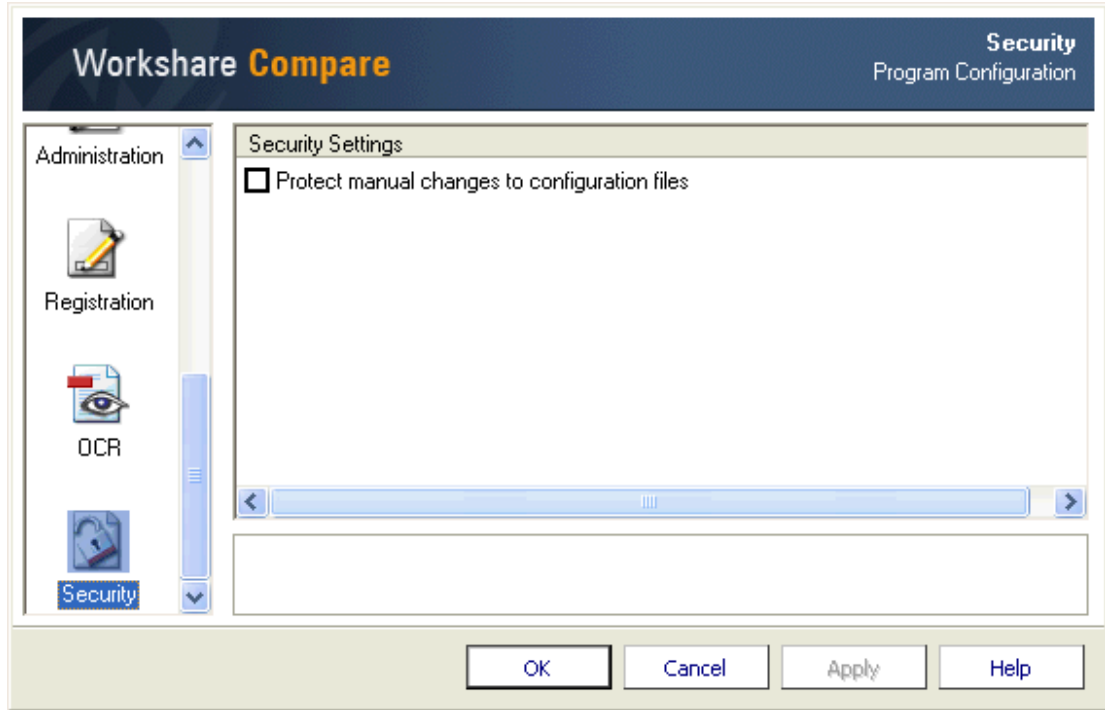
**Note:** When a Workshare OCR Server has already been configured, you can display this dialog by clicking **Configure** in the lower right pane of the OCR category.

**To configure a Workshare OCR Server:**

1. In the **Server location** field, specify the name of the server where you installed the Workshare OCR Server and click **Connect**. If a connection with the server is established “Connected” is displayed in the title bar of the dialog.
2. From the **Workflow** dropdown list, select the workflow that is configured on the server.
3. In the **Connection timeout** field, select the number of seconds Workshare Compare will wait for OCR to be performed by the server and an RTF to be returned.
4. Click **OK**.

## Security

The **Security** category includes one parameter that enables you to protect against manual changes to Workshare Compare configuration files.



The parameter is displayed in the upper area of the right pane. If this parameter is selected and a user manually edits the **Options.xml** or the **Settings.xml** files in the Application Data folder, then the next time Microsoft Word or Workshare Compare is opened, the following will happen:

- If there is an INI file in the Modules/Config folder (such a file would be there if standard configuration files had been rolled out across the organization), the default settings from that file will be restored.
- If there is no INI file in the Modules/Config folder, the default settings from the Options.xml and Settings.xml files found in the Default User/Application Data/Workshare folder will be restored.


# Appendix C. Integrated Diagnostics

This appendix describes the integrated diagnostics tool in Workshare Compare.

## Advanced Diagnostic Tool

Workshare Compare is produced and tested to the highest standards to ensure optimum levels of service for all our customers. In the unlikely event of customers experiencing problems with this product, Workshare Compare is integrated with Advanced Diagnostic Tool (ADT). This tool is designed to assist Workshare Technical Support to gather the information required to diagnose and rapidly resolve your issue.

This software tool is deactivated during the normal running of Workshare Compare and will only be activated when you receive assistance from your Technical Support team. When activated, ADT records the customer's specific environment (operating system, version of Microsoft Office and other applications) and the series of events that lead to the issue arising.

When the ADT is activated, the following icon will appear in your system tray: . When the ADT is running, this icon will animate and appear to rotate.

It is not recommended to use this software without prior discussion with the Technical Support team. Your Technical Support representative will provide full details on how to activate this tool.

**Note:** When activated, the ADT records screen activity. Users should avoid viewing or typing sensitive information when it is in use. However, when deactivated, the ADT does not record any user actions.

# Appendix D. Workshare Compare Prerequisites

## Summary

The prerequisites for Workshare Compare 5.2 SR3 depend on the version of the operating system and the version of Microsoft Office. They are listed on page 14 and further details provided in this appendix. Prerequisites for other versions of Workshare Compare may be slightly different.

## Windows Installer

### Summary

Windows Installer 3.1 is required to allow patching of the product.

### Checks

| Checker                  | File                      | Check                    |
|--------------------------|---------------------------|--------------------------|
| Workshare Install Wizard | %windir%\system32\msi.dll | File is 3.1.0.1 or above |
| WorkshareCompare.msi     |                           | No check is made.        |

### Install Files

| OS                      | Installer   |
|-------------------------|---|
| Windows XP              | <a href="http://download.microsoft.com/download/1/4/7/147ded26-931c-4daf-9095-ec7baf996f46/WindowsInstaller-KB893803-v2-x86.exe">http://download.microsoft.com/download/1/4/7/147ded26-931c-4daf-9095-ec7baf996f46/WindowsInstaller-KB893803-v2-x86.exe</a>     |
| Windows XP x64          | <a href="http://download.microsoft.com/download/4/8/5/4852c63a-cf27-4e83-baad-47b8372e9e9b/WindowsXP-KB898715-x64-enu.exe">http://download.microsoft.com/download/4/8/5/4852c63a-cf27-4e83-baad-47b8372e9e9b/WindowsXP-KB898715-x64-enu.exe</a>                 |
| Windows Server 2003     | <a href="http://download.microsoft.com/download/4/8/5/4852c63a-cf27-4e83-baad-47b8372e9e9b/WindowsServer2003-KB898715-x86-enu.exe">http://download.microsoft.com/download/4/8/5/4852c63a-cf27-4e83-baad-47b8372e9e9b/WindowsServer2003-KB898715-x86-enu.exe</a> |
| Windows Server 2003 x64 | <a href="http://download.microsoft.com/download/4/8/5/4852c63a-cf27-4e83-baad-47b8372e9e9b/WindowsServer2003-KB898715-x64-enu.exe">http://download.microsoft.com/download/4/8/5/4852c63a-cf27-4e83-baad-47b8372e9e9b/WindowsServer2003-KB898715-x64-enu.exe</a> |
| Windows Vista and above | The required version of Windows Installer is distributed with the OS.   |

## Microsoft .NET Framework 3.0

### Summary

Microsoft .NET Framework 3.0 (no service pack) includes other installs such as Microsoft .NET Framework 2.0 and MSXML 6.0 which are installed as part of the Framework.

### Checks

| Checker                 | Registry Key   | Check                          |
|-------------------------|--|--------------------------------|
| Workshare InstallWizard | HKLM\Software\Microsoft\NET Framework Setup\NDP\v3.0\Setup | Value InstallSuccess=1 (DWORD) |
| WorkshareCompare.msi    | HKLM\Software\Microsoft\NET Framework Setup\NDP\v3.0\Setup | Value InstallSuccess exists    |

### Install Files

| OS                      | Installer   |
|-------------------------|---|
| x86                     | <a href="http://go.microsoft.com/fwlink/?LinkId=70848">http://go.microsoft.com/fwlink/?LinkId=70848</a> |
| x64                     | <a href="http://go.microsoft.com/fwlink/?LinkId=70849">http://go.microsoft.com/fwlink/?LinkId=70849</a> |
| Windows Vista and above | The required version of Microsoft .NET is distributed with the OS.                                      |

## KB908002 – Shared Add-in Support Update for Microsoft .NET Framework 2.0

### Summary

This update is required for any version of Office to be able to load .NET addins. It is bundled with the Workshare install. You can extract the Office update (lockbackregkey.msi) from the Visual Studio update <http://download.microsoft.com/download/b/6/7/b6711d3b-b509-4567-8599-98bf3473310f/vs2005-kb908002-enu-x86.exe>.

### Checks

| Checker                  | Reg Key   | Check                    |
|--------------------------|---|--------------------------|
| Workshare Install Wizard | HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{64F3B15C-24C7-4B2B-9B72-65CCBBD7F06B} | Value DisplayName exists |
| WorkshareCompare.msi     | HKCR\Interface\{000C0601-0000-0000-C000-000000000046}   | Key exists               |

## Install Files

| Office                 | Installer                                       |
|------------------------|---|
| All versions of Office | lockbackregkey.msi is bundled with the install. |

## MSXML 6.0

### Summary

MSXML 6.0 is bundled and installed with Microsoft .NET Framework 3. Installation of this prerequisite is verified because there have been issues with it in the past.

### Checks

| Checker              | File                         | Check       |
|----------------------|------------------------------|-------------|
| WorkshareCompare.msi | %windir%\system32\msxml6.dll | File exists |

## Install Files

This prerequisite is bundled with Microsoft .NET 3. It is also possible to download it separately from Microsoft.

## Microsoft Visual C++ 2005 SP1 Redistributable Package ATL Security Update (x86)

### Summary

Microsoft Visual C++ 2005 SP1 Redistributable Package ATL Security Update (x86) is required.

### Checks

| Checker                  | Registry Key  | Check                    |
|--------------------------|---|--------------------------|
| Workshare Install Wizard | HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{837B34E3-7C30-493C-8F6A-2B0F04E2912C} | Value DisplayName exists |
| WorkshareCompare.msi     | HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{837B34E3-7C30-493C-8F6A-2B0F04E2912C} | Value DisplayName exists |

## Install Files

| OS           | File  |
|--------------|---|
| All versions | <a href="http://download.microsoft.com/download/6/B/B/6BB661D6-A8AE-4819-B79F-236472F6070C/vcredist_x86.exe">http://download.microsoft.com/download/6/B/B/6BB661D6-A8AE-4819-B79F-236472F6070C/vcredist_x86.exe</a> |

## Microsoft Visual C++ 2005 SP1 Redistributable Package ATL Security Update (x64)

### Summary

Microsoft Visual C++ 2005 SP1 Redistributable Package ATL Security Update (x64) is required for the native x64 code in the application.

### Checks

| Checker                  | Registry Key  | Check              |
|--------------------------|---|--------------------|
| Workshare Install Wizard | HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{071c9b48-7c32-4621-a0ac-3f809523288f} | DisplayName exists |
| WorkshareCompare.msi     | HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{071c9b48-7c32-4621-a0ac-3f809523288f} | DisplayName exists |

## Install Files

| OS                  | File  |
|---------------------|---|
| All 64 bit versions | <a href="http://download.microsoft.com/download/6/B/B/6BB661D6-A8AE-4819-B79F-236472F6070C/vcredist_x64.exe">http://download.microsoft.com/download/6/B/B/6BB661D6-A8AE-4819-B79F-236472F6070C/vcredist_x64.exe</a> |

## Microsoft Visual C++ 2008 SP1 Redistributable Package ATL Security Update (x86)

### Summary

Microsoft Visual C++ 2008 SP1 Redistributable Package ATL Security Update (x86) is required.

## Checks

| Checker                  | Registry Key  | Check                    |
|--------------------------|---|--------------------------|
| Workshare Install Wizard | HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{1F1C2DFC-2D24-3E06-BCB8-725134ADF989} | Value DisplayName exists |
| WorkshareCompare.msi     | HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{1F1C2DFC-2D24-3E06-BCB8-725134ADF989} | Value DisplayName exists |

## Install Files

| OS           | File  |
|--------------|---|
| All versions | <a href="http://download.microsoft.com/download/9/7/7/977B481A-7BA6-4E30-AC40-ED51EB2028F2/vcredist_x86.exe">http://download.microsoft.com/download/9/7/7/977B481A-7BA6-4E30-AC40-ED51EB2028F2/vcredist_x86.exe</a> |

## Microsoft Visual C++ 2008 SP1 Redistributable Package ATL Security Update (x64)

### Summary

Microsoft Visual C++ 2008 SP1 Redistributable Package ATL Security Update (x64) is required for the native x64 code in the application.

## Checks

| Checker                  | Registry Key  | Check              |
|--------------------------|---|--------------------|
| Workshare Install Wizard | HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{4B6C7001-C7D6-3710-913E-5BC23FCE91E6} | DisplayName exists |
| WorkshareCompare.msi     | HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{4B6C7001-C7D6-3710-913E-5BC23FCE91E6} | DisplayName exists |

## Install Files

| OS                  | File  |
|---------------------|---|
| All 64 bit versions | <a href="http://download.microsoft.com/download/9/7/7/977B481A-7BA6-4E30-AC40-ED51EB2028F2/vcredist_x64.exe">http://download.microsoft.com/download/9/7/7/977B481A-7BA6-4E30-AC40-ED51EB2028F2/vcredist_x64.exe</a> |

## Microsoft Report Viewer (x86)

### Summary

The Microsoft Report Viewer is used to display risk reports. It requires Microsoft .NET Framework 3 to be installed.

The Workshare Install Wizard uses ReportViewerChk.exe to determine if the report viewer is installed. ReportViewerChk.exe is bundled with the Protect 5.2 SR3 install and initially came from the Visual Studio 2005 install.

### Checks

| Checker                  | File / Registry Key                             | Check                         |
|--------------------------|---|-------------------------------|
| Workshare Install Wizard | Uses the bundled exe ReportViewerChk.exe        | ReportViewerChk.exe returns 1 |
| WorkshareCompare.msi     | HKLM\Software\Microsoft\ReportViewer\v2.0.50727 | Value Install exists          |

### Install Files

| OS           | File  |
|--------------|---|
| All versions | <a href="http://download.microsoft.com/download/2/7/f/27faefe6-1a8b-4d05-a8cf-abd8043268a9/ReportViewer.exe">http://download.microsoft.com/download/2/7/f/27faefe6-1a8b-4d05-a8cf-abd8043268a9/ReportViewer.exe</a> |

## KB907417 – Update for Office 2003

### Summary

The KB907417 Update for Office 2003 enables Microsoft Word 2003 and Microsoft Excel 2003 to load .NET addins.

### Checks

| Checker                  | File                                  | Check                                  |
|--------------------------|---------------------------------------|--|
| Workshare Install Wizard | [OFFICE2003_PATH]\Addins\OTKLOADR.DLL | File version is 7.10.5077.0 or greater |
| WorkshareCompare.msi     | [OFFICE2003_PATH]\Addins\OTKLOADR.DLL | File version is 7.10.5077.0 or greater |

### Install Files

| Office Version | File  |
|----------------|---|
| Office 2003    | <a href="http://download.microsoft.com/download/5/a/6/5a6c111a-4392-41dc-a1b3-87ea0083950a/office2003-KB907417-FullFile-ENU.exe">http://download.microsoft.com/download/5/a/6/5a6c111a-4392-41dc-a1b3-87ea0083950a/office2003-KB907417-FullFile-ENU.exe</a> |

## KB935514 – Update for Office 2007

### Summary

The KB935514 Update for Office 2007 is required for Office 2007 (no service pack). This update has been included in Office 2007 service pack 1.

### Checks

| Checker                  | File / Registry Key         | Check                                     |
|--------------------------|-----------------------------|---|
| Workshare Install Wizard | [OFFICE2007_PATH]\WWLIB.DLL | File version is 12.0.6016.5000 or greater |
| WorkshareCompare.msi     | [OFFICE2007_PATH]\WWLIB.DLL | File version is 12.0.6016.5000 or later   |

### Install Files

| Office Version | File  |
|----------------|---|
| Office 2007    | <a href="http://download.microsoft.com/download/8/2/4/8242897a-5aef-4ffa-bfb0-02a25c26fd01/office-kb935514-fullfile-x86-glb.exe">http://download.microsoft.com/download/8/2/4/8242897a-5aef-4ffa-bfb0-02a25c26fd01/office-kb935514-fullfile-x86-glb.exe</a> |

## Microsoft Office System Primary Interop Assemblies (PIA)

### Summary

The Microsoft Office System Primary Interop Assemblies are used by .NET programs to communicate with Office.

You can extract the Office PIAs (o2007pia.msi) from the Office download <http://download.microsoft.com/download/e/1/d/e1df4622-5f6c-4fb9-845b-38d009cc1188/PrimaryInteropAssembly.exe>.

### Checks

| Checker                  | File / Registry Key   | Check                    |
|--------------------------|---|--------------------------|
| Workshare Install Wizard | HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{50120000-1105-0000-0000-0000000FF1CE} | Value DisplayName exists |
| WorkshareCompare.msi     |   | No check is made.        |

### Install Files

| Office Version | File   |
|----------------|--|
| Office 2007    | o2007pia.msi can be extracted from <a href="http://download.microsoft.com/download/e/1/d/e1df4622-5f6c-4fb9-845b-38d009cc1188/PrimaryInteropAssembly.exe">http://download.microsoft.com/download/e/1/d/e1df4622-5f6c-4fb9-845b-38d009cc1188/PrimaryInteropAssembly.exe</a> . |

## Open XML Format SDK

### Summary

This prerequisite is required to be able to read and write Microsoft Office XML files. It is bundled with the Workshare install. You can download the installer from <http://download.microsoft.com/download/7/7/3/7737344c-40f6-47f3-9f5e-be8e7a7a0a89/OpenXMLSDK.msi>.

### Checks

| Checker                  | Reg Key   | Check                    |
|--------------------------|---|--------------------------|
| Workshare Install Wizard | HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{F565EF2B-9A5C-49EB-BEE1-7FAF8E998330} | Value DisplayName exists |
| WorkshareCompare.msi     |   | No check is made.        |

### Install Files

| OS           | Installer   |
|--------------|---|
| All versions | <a href="http://download.microsoft.com/download/7/7/3/7737344c-40f6-47f3-9f5e-be8e7a7a0a89/OpenXMLSDK.msi">http://download.microsoft.com/download/7/7/3/7737344c-40f6-47f3-9f5e-be8e7a7a0a89/OpenXMLSDK.msi</a> |

## KB898715 - Windows Installer for Server 2003 (x64)

### Summary

KB898715 - Windows Installer for Server 2003 (x64) is required for patching.

### Checks

| Checker                  | Registry Key              | Check                    |
|--------------------------|---------------------------|--------------------------|
| Workshare Install Wizard | %windir%\system32\msi.dll | File is 3.1.0.1 or above |
| WorkshareCompare.msi     |                           | No check is made.        |

## Install Files

| OS                      | File  |
|-------------------------|---|
| Windows Server 2003 x64 | <a href="http://download.microsoft.com/download/4/8/5/4852c63a-cf27-4e83-baad-47b8372e9e9b/WindowsServer2003-KB898715-x64-enu.exe">http://download.microsoft.com/download/4/8/5/4852c63a-cf27-4e83-baad-47b8372e9e9b/WindowsServer2003-KB898715-x64-enu.exe</a> |

## KB898715 - Windows Installer for Server 2003 (x86)

### Summary

KB898715 - Windows Installer for Server 2003 (x86) is required for patching.

### Checks

| Checker                  | Registry Key              | Check                    |
|--------------------------|---------------------------|--------------------------|
| Workshare Install Wizard | %windir%\system32\msi.dll | File is 3.1.0.1 or above |
| WorkshareCompare.msi     |                           | No check is made.        |

## Install Files

| OS                      | File  |
|-------------------------|---|
| Windows Server 2003 x86 | <a href="http://download.microsoft.com/download/4/8/5/4852c63a-cf27-4e83-baad-47b8372e9e9b/WindowsServer2003-KB898715-x86-enu.exe">http://download.microsoft.com/download/4/8/5/4852c63a-cf27-4e83-baad-47b8372e9e9b/WindowsServer2003-KB898715-x86-enu.exe</a> |