

MatchWare MindView 7 Technical Specification

File: MindView 7 Technical Specification_EN.docx
Document Revision: 7.03

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Overview

This document provides a thorough description of the technical details about MatchWare MindView 7.

System Requirements

Windows® 7 SP1, Windows 8, Windows 10 (or higher).
400 MB disk space.

Import/Export from Microsoft Word

MatchWare MindView 7 uses the Office Open XML file format (.docx) so Microsoft Office Word is not required for import/export.

To view or edit exported documents use:

Microsoft Office 2007 or newer, Microsoft Office Word 2000, XP or 2003 with Compatibility Pack, Microsoft Wordpad for Windows 7, OpenOffice or other third party Office Open XML viewer/editor.

Import/Export from Microsoft PowerPoint

MatchWare MindView 7 uses the Office Open XML file format (.pptx) so Microsoft Office PowerPoint is not required for import/export.

To view or edit exported documents use:

Microsoft Office 2007 or newer, Microsoft Office PowerPoint 2000, XP or 2003 with Compatibility Pack, OpenOffice or other third party Office Open XML viewer/editor.

Import/Export from Microsoft Project

Microsoft Project from 2003 onwards for creating/importing native Microsoft Project files (.mpp). If Microsoft Project is not installed you are able to import/export to the Microsoft Project XML format.

Import/Export from Microsoft Excel

Microsoft Excel from 2003 onwards for creating/importing native Microsoft Excel files (.xlsx). Export to Microsoft Excel 2010 onwards requires Microsoft .NET Framework 4 Client Profile.

If Microsoft Excel is not installed you are able to import/export to the Microsoft Excel XML spreadsheet format.

Import/Export from Microsoft Outlook

Microsoft Outlook from 2000 onwards required.

Installation

The MatchWare MindView 7 installation is using the standard Microsoft Windows® Installer technology. Like all Windows® software, the MindView installation requires Administrator privileges.

Stand-alone installation

MindView comes as an installation package (*.exe file) that you download to your computer.

- Double-click the installation package.
- Follow the instructions on the screen when the MindView Install program starts.

Administrative installation (system administrators only)

The Windows® Installer can perform an administrative installation of an application or product to a network for use by a workgroup. Alternatively, you can extract the contents of the .exe file so that you or

the users in your organization can install MindView using the .msi file (see "Extracting the .msi file and additional content" on page 5).

After performing an administrative installation or extracting the .msi file, you can push the installation to client computers in the domain using Group Policies or a different installation methodology.

To find out more about Windows® Installer and administrative installations, please refer to the Microsoft web site.

Creating an administrative installation

You can create an administrative installation from the command line as follows. The procedure extracts a complete source image of the application (similar to the source image found on a DVD).

Choose **Start | Run**.

 **Tip:** You can hold down the Windows button and press R.

Use the Browse button to locate the downloaded MindView installation package.

Insert the command line option **/a //** after the path to the installation package as in the example below:

```
C:\downloaded_files\mindview7_<language>_<build>.exe /a //
```

Click OK to start the Administrative Installation Wizard.

The administrative installation dialog

When the administrative installation starts you will see the following dialog (Figure 1):

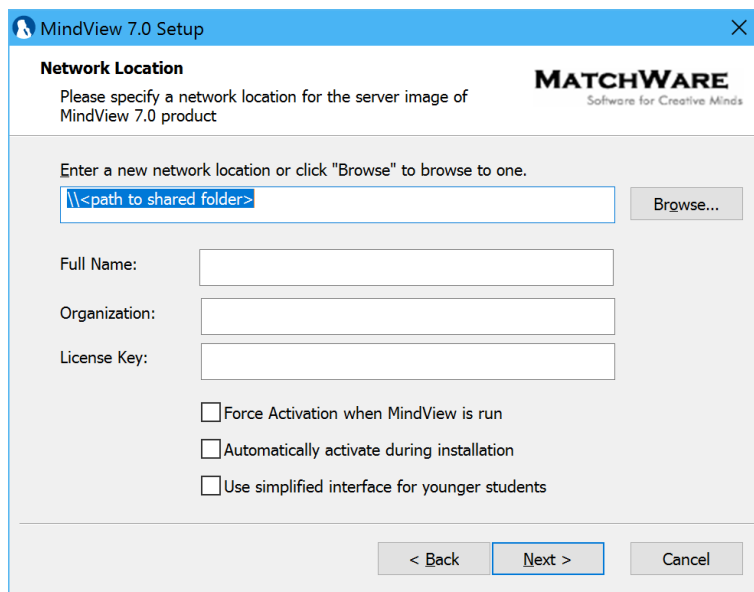


Figure 1 – Administrative Installation of MatchWare MindView 7

Specify the following in that dialog:

- The location of the installation package
- The user name and company name to use as default
- The license number
- (optional) Check '*Force activation when MindView is run*' if you want MindView to be automatically activated the first time the program runs.
- (optional) Check '*Automatically activate during installation*' if you want to activate MindView during installation.
- (optional) Check '*Use simplified interface for younger students*' if you want MindView to enable the simplified interface as default.

These three activation options are "silent" (i.e. they do not display any messages).

The above options are stored in a file called "admin.ini" in the destination folder. You can edit this file using a text editor like Notepad if you want to change the options without making a new administrative installation.

Extracting the .msi file and additional content

You can extract the .msi file and .cab files from the installer package using the command line option **/extract**.

Choose **Start | Run**, and locate the downloaded MindView installation package as described above.

Insert the **/extract** command line option after the path to the installation package. The examples below assume that you have downloaded the package to the Temp folder.

Extract the package contents to the same folder as the .exe file:

```
c:\temp\mindview7_<language>_<build>.exe /extract
```

Extract the package content to a different folder:

```
c:\temp\mindview7_<language>_<build>.exe /extract:c:\temp\msipackage
```

In the second example, it is important to create the *msipackage* folder before running the command, as it will not be created automatically.

Installation troubleshooting

Changing the location of the activation file

By default, the activation data is stored in:

```
%ALLUSERSPROFILE%\mwas\MindView 7.0.mwas
```

In some rare situations, client computers may be setup with restricted access to the above folder, and this will cause the activation file not to be saved. If you have a client server system setup in this way, you can move the activation file to another location by adding an entry to the admin.ini file as follows:

```
[Activation]
```

```
mwas=c:\<different folder with write access>\MindView 7.0.mwas
```

Storing several activation files on the server

You can store several activation files in the same folder of the server by adding an entry to the admin.ini file as follows:

```
[Activation]
mwas=\\server\activations\MindView 7.0_%COMPUTERNAME%.mwas
```

Where:

server = the name of the server

activations = the share name on the server

%COMPUTERNAME% will be replaced with the client computer name

Installed components

MindView Files

Per-machine

The installer places the MindView files in the below folder by default:

```
%programfiles(x86)%\MatchWare\MindView 7.0\
```

You are able to change this folder during installation.

Per-user

The user specific data is saved here:

```
%APPDATA%\MatchWare\MindView 7.0
```

The user specific data is created the first time the application is run by the user.

Common Files

MatchWare MindView depends on the following Microsoft components:

- Microsoft Visual C++ 14.0 Run-Time Libraries
For a complete list of files see Microsoft's documentation
- Microsoft XML Parser
- Microsoft Gdiplus

Windows Registry

The MindView 7 installation only sets up per-machine registry settings in to the *HKEY_LOCAL_MACHINE* and *HKEY_CLASSES_ROOT*.

HKEY_LOCAL_MACHINE

All per-machine settings are saved in the following registry path:

32bit Windows:

```
HKEY_LOCAL_MACHINE\Software\MatchWare\MindView 7.0\
```

64bit Windows:

```
HKEY_LOCAL_MACHINE\Software\Wow6432Node\MatchWare\MindView 7.0\
```

HKEY_CLASSES_ROOT

```
[HKEY_CLASSES_ROOT\.mvd\]
```

```
[HKEY_CLASSES_ROOT\.mvd\PersistentHandler]
```

```
[HKEY_CLASSES_ROOT\AppID]
```

```
[HKEY_CLASSES_ROOT\AppID\MwFilter.DLL]
```

```
[HKEY_CLASSES_ROOT\AppID\SharepointOpen.DLL]
```

```
[HKEY_CLASSES_ROOT\CLSID]
[HKEY_CLASSES_ROOT\CLSID\{C39ABD75-6DE5-418a-844B-AAA400B643E3}]
[HKEY_CLASSES_ROOT\CLSID\{C39ABD75-6DE5-418a-844B-
AAA400B643E3}\PersistentAddinsRegistered]
[HKEY_CLASSES_ROOT\CLSID\{C39ABD75-6DE5-418a-844B-
AAA400B643E3}\PersistentAddinsRegistered\{89BCB740-6119-101A-BCB7-
00DD010655AF}]
[HKEY_CLASSES_ROOT\CLSID\{C39ABD75-6DE5-418a-844B-AAA400B643E3}]
[HKEY_CLASSES_ROOT\CLSID\{C39ABD75-6DE5-418a-844B-
AAA400B643E3}\PersistentAddinsRegistered]
[HKEY_CLASSES_ROOT\CLSID\{C39ABD75-6DE5-418a-844B-
AAA400B643E3}\PersistentAddinsRegistered\{89BCB740-6119-101A-BCB7-
00DD010655AF}]
[HKEY_CLASSES_ROOT\Matchware.MindViewOpen]
[HKEY_CLASSES_ROOT\Matchware.MindViewOpen\CLSID]
[HKEY_CLASSES_ROOT\Matchware.MindViewOpen\CurVer]
[HKEY_CLASSES_ROOT\Matchware.MindViewOpen.1]
[HKEY_CLASSES_ROOT\Matchware.MindViewOpen.1\CLSID]
[HKEY_CLASSES_ROOT\MindView.Document]
[HKEY_CLASSES_ROOT\MindView.Document\CurVer]
[HKEY_CLASSES_ROOT\MindView.Document.7]
[HKEY_CLASSES_ROOT\MindView.Document.7\DefaultIcon]
[HKEY_CLASSES_ROOT\MindView.Document.7\Shell]
[HKEY_CLASSES_ROOT\MindView.Document.7\Shell\Open]
[HKEY_CLASSES_ROOT\MindView.Document.7\Shell\Open\Command]
[HKEY_CLASSES_ROOT\MindViewOpen]
[HKEY_CLASSES_ROOT\MindViewOpen\Shell]
[HKEY_CLASSES_ROOT\MindViewOpen\Shell\Open]
[HKEY_CLASSES_ROOT\MindViewOpen\Shell\Open\Command]
[HKEY_CLASSES_ROOT\MwFilter.MWDocFilter]
[HKEY_CLASSES_ROOT\MwFilter.MWDocFilter\CLSID]
[HKEY_CLASSES_ROOT\MwFilter.MWDocFilter\CurVer]
[HKEY_CLASSES_ROOT\MwFilter.MWDocFilter.1]
[HKEY_CLASSES_ROOT\MwFilter.MWDocFilter.1\CLSID]
[HKEY_CLASSES_ROOT\MwFilter.MWDocFilter.1]
[HKEY_CLASSES_ROOT\MwFilter.MWDocFilter.1\CLSID]
[HKEY_CLASSES_ROOT\MwFilter.MWDocFilter]
[HKEY_CLASSES_ROOT\MwFilter.MWDocFilter\CLSID]
[HKEY_CLASSES_ROOT\MwFilter.MWDocFilter\CurVer]
```

HKEY_CURRENT_USER

All per-user settings are saved in the following registry path:

`HKEY_CURRENT_USER\Software\MatchWare\MindView 7.0\`

Windows Installer uninstall information

This information is located here:

32bit Windows:

`HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{17F7B186-816D-4352-999A-3714C947771F}`

64bit Windows:

`HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Windows\CurrentVersion\Uninstall\{17F7B186-816D-4352-999A-3714C947771F}`

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Windows Search

Windows Search is a desktop search platform that has instant search capabilities for most common file types within Windows. MindView provides a third-party search extension that allow customers to search for content within MindView documents (.mvdX) during desktop search.

The IFilter component is available in both 32 and 64bit versions:

32bit version:

```
%programfiles(x86)%\MatchWare\MindView 7.0\MwFilter.dll
```

64bit version:

```
%programfiles(x86)%\MatchWare\MindView 7.0\MwFilter_64.dll
```

MatchWare Activation System

Mandatory activation is required when using MindView. When activating the Product certain information about the Product and the device will be sent to MatchWare. This information includes version, language, product ID of the Product, device internet protocol address and hardware configuration. By using the Product you consent to the transmission of this information.

Each and every client computer needs to be activated. When MindView is first run you will be presented with an Activation dialog (Figure 2).

MindView will communicate with the MatchWare Activation Server (<http://activate.matchware.com>, <http://activate1.matchware.com> or <http://activate2.matchware.com>) through port 80.

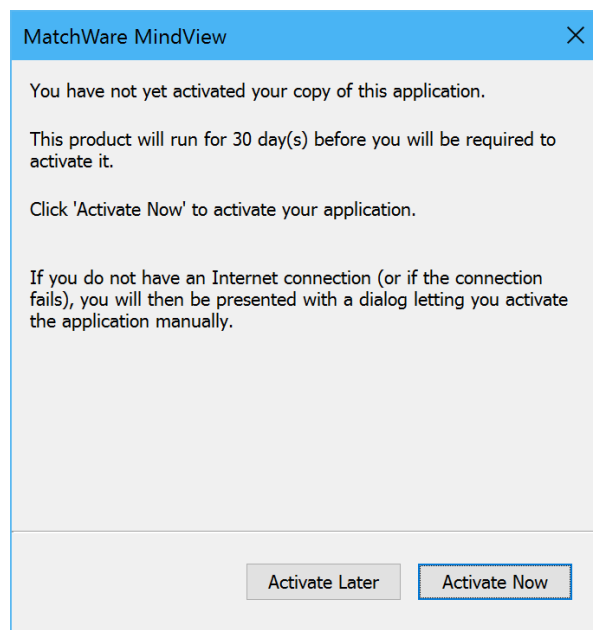


Figure 2 – The MatchWare Activation dialog

When you click the **Activate Now** button, MindView communicates with the MatchWare Activation Server to verify if the product is valid, and on success the activation data is saved to the current file:

```
%ALLUSERSPROFILE%\mwas\MindView 7.0.mwas
```

If MindView is not able to communicate with the MatchWare Activation Server a manual activation is needed (Figure 3).

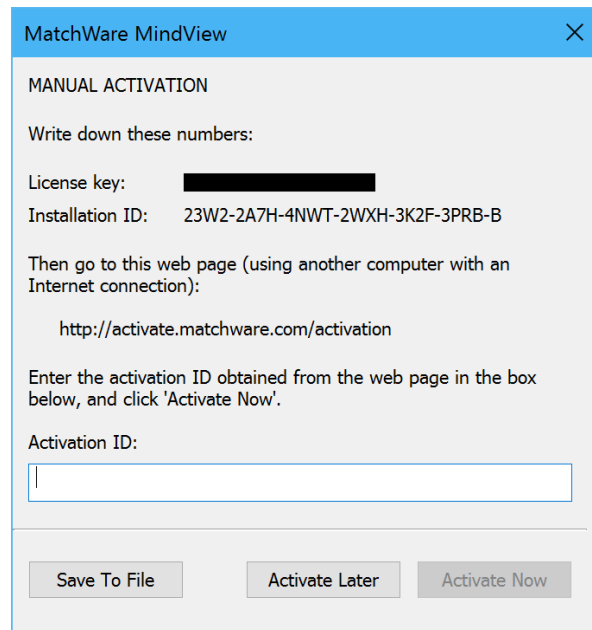


Figure 3 – Manual Activation of MindView

Once MindView is activated you will not need to activate again unless you make major changes to the computer hardware.

MIME-type

application/matchware.mindview.document .mvdxd .mvtx .omp .omt .mvd .omd
Asynchronous Pluggable Protocol: MindViewOpen

MatchWare Shared Workspace

MatchWare MindView communicates with the Shared Workspace using the Hypertext Transfer Protocol Secure (HTTPS) using the standard port 443.

The MindView 7 Shared Workspace is located here: <https://www.sharedworkspace.com>

It is possible for customers to get a dedicated shared workspace which can be installed On Premise.

MatchWare MindView XML Schema

MatchWare MindView has its own defined XML schema for making it easier to interchange project data between MindView and other programs. The schema definition can be found here:

<http://schema.matchware.com/mindview/>

Custom XML Export

It is possible to make a custom XML export by defining a transformation file which transforms the MatchWare MindView XML during save to XML. The following file needs to be changed:

<Installation path>\MindView 7.0\Resources\XML\Export\filters.ini

The file defines the valid XML export formats (in "Save as Type") when choosing **File | Export | XML** from within MindView.

Content description:

```
[CustomSection]
Text=Descriptive text which is shown in the XML Export "Save as type"
drop-down list in MindView
Filter=File extension of the export file
xsl=Custom transformation file
```

Custom XML Import

It is possible to make a custom XML import by defining a transformation file which transforms the custom XML to the MatchWare MindView XML during import from XML. The following file needs to be changed:

File: <Installation path>\MindView 7.0\Resources\XML\Import\filters.ini

The file defines the valid XML import formats when choosing **File | Import | XML** from within MindView.

Content description:

```
[CustomSection]
Text=Descriptive text which is shown in the XML Import file type drop-
down list in MindView
Filter=File extension of the import file
xsl=Custom transformation file
Converter=Converter which is run during import (optional)
rootelement=Root XML element which is used during auto detection of
import (optional)
```