

MatchWare MindView 9 Technical Specification

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Overview

This document provides a thorough description of the technical details about MatchWare MindView 9.

System requirements

Windows® 10 (or higher).

1.7GB disk space.

Dependent modules

- Microsoft Visual C++ 2022 Redistributable (**version 14.4x or newer**)
x64: https://aka.ms/vs/17/release/VC_redist.x64.exe
NB: For Windows ARM devices with emulator the following package is required:
ARM64: https://aka.ms/vs/17/release/vc_redist.arm64.exe
- Microsoft .NET Framework 4.8 or newer
- Microsoft .NET 8

Additional modules used by MindView

- Microsoft Edge WebView2 Runtime
<https://link.matchware.com/mswebview2>

MindView requires the Microsoft Edge WebView2 Runtime browser to be installed. The MindView installer will automatically check and install it if needed.

Import/Export from Microsoft Word

MatchWare MindView 9 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, OpenOffice or other third party Office Open XML viewer/editor.

Import/Export from Microsoft PowerPoint

MatchWare MindView 9 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.

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Import/Export from Microsoft Excel

MatchWare MindView 9 uses the Office Open XML file format (.xlsx) so Microsoft Office Excel is not required for import/export.

To view or edit exported documents use:

Microsoft Office 2007 or newer, OpenOffice or other third party Office Open XML viewer/editor.

Import/Export from Microsoft Outlook

Microsoft Outlook from 2000 onwards required.

Installation

The MatchWare MindView 9 installation is using the standard Microsoft Windows® Installer technology. The installation is a 64bit package which will only work on 64bit Windows OS. The installation may contain multiple languages. The language selected during installation becomes the default user interface language for MindView. 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 Windows Installer package (.msi file, see "[Extracting the .msi file and additional content](#)" on page 8).

After performing an administrative installation or extracting the .msi file, you can push the installation to client computers in a 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.

Windows Installer Properties

The following Windows Installer properties allow you to manipulate the MindView installer and default settings in MindView:

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Property Name	Description	Default	Options
LANCODE	Default language. Default is empty which makes the installer set the device default language. English: empty French: 033 German: 049 Danish: 045 Norwegian: 047		<Empty> 033 049 045 047
SN	License key		
VLEID	Special VLE key to be used for special login screens		
COMPANYNAME	Company name which will be located in the About section and the default for the user profile in the Preferences		
USERNAME	User name which will be located in the About section and the default for the user profile in the Preferences		
EDGALLOWSSO	Option to enable single sign on with Azure Active Directory (AAD) resources inside WebView using the logged in Windows account and single sign on with web sites using the Microsoft account associated with the login in Windows account	0	0 1
ENABLEAI	Defines if the AI should be available	1	0 1
ENABLEPREDICTIVESUGGESTIONS	Enables/disables the Predictive Suggestions functionality	1	0 1
ENABLEUPDATECHECK	Defines if MindView automatically checks for online program updates and notifies the user if any are available. The installation of program updates requires administrator privileges.	1	0 1
ENABLEWEBUPDATE	Defines if the auto-update functionality is enabled. This will automatically download and apply updates to sections of MindView. This functionality does not require administrator	1	0 1

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	privileges. If ENABLEUPDATECHECK is disabled (0), this auto-update functionality is also disabled.		
ENABLEWORKSPACES	Defines if all online services should be available to users. When disabled the following services are unavailable: <ul style="list-style-type: none"> • MindView Drive • MatchWare Public Maps • MatchWare Task System • Microsoft SharePoint Connector • Microsoft OneDrive Connector • Google Drive Connector 	1	0 1
ENABLEMANAGEWORKSPACES	Defines if the user should be able to add or change the connected workspaces	1	0 1
ENABLEONLINETEXTTOSPEECH	Enables use of advanced online text to speech engine NB: AT Edition only	1	0 1
ENABLEONLINESPEECHTOTEXT	Enables use of advanced online speech to text engine NB: AT Edition only	1	0 1
ENABLERESEARCH	Defines if the Research Panel is available to users within MindView	1	0 1
ENABLETASKSYSTEM	Defines if the Task System is available to users within MindView	1	0 1
REMOVEINSERTSOUND	Defines if the "Insert Sound" feature should be available or not	0	0 1
SHOWACCOUNTLOGIN	Defines if the Login button at the top right of the MindView screen should be visible or hidden	1	0 1
SHOWKEEPSIGNIN	Defines if the "Stay logged in" dialog should be enabled or disabled and removed from Preferences	1	0 1
SHOWQUICKSTART	Show Quick Start Panel as default	1	0 1
SHOWSIMPLEUI	Show Simple Interface as default * For the AT Edition, the default is 1	0*	0 1

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UEIP	User Experience Improvement Program. Disabled by default for Admin installation.	1	0 1
NOEULA	Defines if the EULA should be pre-accepted or not	0	0 1
FORCEVIEWER	Forces MindView to be a Viewer with no Login screen	0	0 1

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.

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\mindview9_<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):

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MindView 9.0 Setup

Network Location

Please specify a network location for the server image of MindView 9.0 product

Enter a new network location or click "Browse" to browse to one.

\\<path to shared network folder>

Full Name:

Organization:

License Key:

Use simplified interface for younger students

< Back

Figure 1 – Administrative Installation of MatchWare MindView 9

Specify the following in that dialog:

- The location for the server image of MindView
- The user name and company name to use as default
- (optional) License key
- (optional) Check 'Use simplified interface for younger students' if you want MindView to enable the simplified interface as default.

Note: When using the administration installation make sure to pre-install the dependent modules (see "[Dependent modules](#)" on page 4).

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\mindview9_<build>.exe /extract
```

Extract the package content to a different folder:

```
c:\temp\mindview9_<build>.exe /extract:c:\temp\msipackage
```

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

Installation

The administrative installation package or the extracted Windows Installer package can be installed directly from the command line or by using group policies to push the installation to client computers.

Silent install example

The administrative installation package or the extracted Windows Installer package can be installed silently from the command prompt using the command line option **/qn**

```
msiexec.exe /i setup_X.msi /qn
```

Install with default language

If the installation package contains multiple languages it is possible to define the default language by using the following command line option. Here is how to set the default language to German:

```
msiexec.exe /I setup_X.msi /qn TRANSFORMS=:1031
```

Using the installation package:

```
c:\temp\mindview9_<build>.exe /exelang 1031
```

Available languages:

1030: Danish

1031: German

1033: English (default)

1036: French

1044: Norwegian

Installed components

MindView Files

Per-machine

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

```
%programfiles%\MatchWare\MindView 9.0\
```

You are able to change this folder during installation.

Per-user

The user specific data is saved here:

```
%APPDATA%\MatchWare\MindView 9.0
```

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

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Common Files

MatchWare MindView depends on the following Microsoft components:

- Microsoft Visual C++ 17.0 Run-Time Libraries
For a complete list of files see Microsoft's documentation
- Microsoft XML Parser
- Microsoft Gdiplus

Windows Registry

The MindView 9 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:

HKEY_LOCAL_MACHINE\Software\MatchWare\MindView 9.0

HKEY_CLASSES_ROOT

```
[HKEY_CLASSES_ROOT\.mvdX]
[HKEY_CLASSES_ROOT\.mvdX\OpenWithProgIds]
[HKEY_CLASSES_ROOT\.mvdX\PersistentHandler]
[HKEY_CLASSES_ROOT\.mvdX\ShellEx]
[HKEY_CLASSES_ROOT\.mvdX\ShellEx\{E357FCCD-A995-4576-B01F-234630154E96}]
[HKEY_CLASSES_ROOT\.mvdX\PersistentHandler]
[HKEY_CLASSES_ROOT\.mvdX\ShellEx]
[HKEY_CLASSES_ROOT\.mvdX\ShellEx\{E357FCCD-A995-4576-B01F-234630154E96}]
[HKEY_CLASSES_ROOT\AppID\MwFilter.DLL]
[HKEY_CLASSES_ROOT\CLSID\{7E62B9C0-59E0-3072-B218-B198C91E61C3}]
[HKEY_CLASSES_ROOT\CLSID\{7E62B9C0-59E0-3072-B218-B198C91E61C3}\InprocServer32]
[HKEY_CLASSES_ROOT\CLSID\{7E62B9C0-59E0-3072-B218-B198C91E61C3}\InprocServer32\1.0.0.0]
[HKEY_CLASSES_ROOT\CLSID\{CC1A0E63-534A-3A3B-A5AF-E692AF4CFC2C}]
[HKEY_CLASSES_ROOT\CLSID\{CC1A0E63-534A-3A3B-A5AF-E692AF4CFC2C}\InprocServer32]
[HKEY_CLASSES_ROOT\CLSID\{CC1A0E63-534A-3A3B-A5AF-E692AF4CFC2C}\InprocServer32\1.0.0.0]
[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}]
```

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```

[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\{7E62B9C0-59E0-3072-B218-
B198C91E61C3}\InprocServer32]
[HKEY_CLASSES_ROOT\CLSID\{7E62B9C0-59E0-3072-B218-
B198C91E61C3}\InprocServer32\1.0.0.0]
[HKEY_CLASSES_ROOT\CLSID\{CC1A0E63-534A-3A3B-A5AF-E692AF4CFC2C}]
[HKEY_CLASSES_ROOT\CLSID\{CC1A0E63-534A-3A3B-A5AF-
E692AF4CFC2C}\InprocServer32]
[HKEY_CLASSES_ROOT\CLSID\{CC1A0E63-534A-3A3B-A5AF-
E692AF4CFC2C}\InprocServer32\1.0.0.0]
[HKEY_CLASSES_ROOT\MW.NetHelper.ExcelHelper]
[HKEY_CLASSES_ROOT\MW.NetHelper.ExcelHelper\CLSID]
[HKEY_CLASSES_ROOT\MW.NetHelper.ExcelHelper]
[HKEY_CLASSES_ROOT\MW.NetHelper.ExcelHelper\CLSID]
[HKEY_CLASSES_ROOT\MW.NetHelper.OfficeHelper]
[HKEY_CLASSES_ROOT\MW.NetHelper.OfficeHelper\CLSID]
[HKEY_CLASSES_ROOT\MW.NetHelper.OfficeHelper]
[HKEY_CLASSES_ROOT\MW.NetHelper.OfficeHelper\CLSID]
[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.9]
[HKEY_CLASSES_ROOT\MindView.Document.9\DefaultIcon]
[HKEY_CLASSES_ROOT\MindView.Document.9\Shell]
[HKEY_CLASSES_ROOT\MindView.Document.9\Shell\Open]
[HKEY_CLASSES_ROOT\MindView.Document.9\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]

```

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```
[HKEY_CLASSES_ROOT\MwFilter.MWDocFilter.1]
[HKEY_CLASSES_ROOT\MwFilter.MWDocFilter]
[HKEY_CLASSES_ROOT\MwFilter.MWDocFilter\CLSID]
[HKEY_CLASSES_ROOT\MwFilter.MWDocFilter\CurVer]
[HKEY_CLASSES_ROOT\Record\{445FE17C-97D1-3EF4-BB90-9EE99DFA5101}]
[HKEY_CLASSES_ROOT\Record\{445FE17C-97D1-3EF4-BB90-9EE99DFA5101}\1.0.0.0]
[HKEY_CLASSES_ROOT\Record\{462E89CA-72CA-3819-9042-18F92126045A}]
[HKEY_CLASSES_ROOT\Record\{462E89CA-72CA-3819-9042-18F92126045A}\1.0.0.0]
[HKEY_CLASSES_ROOT\Record\{FA09B9A1-660E-31F9-BF72-F8552AC6E593}]
[HKEY_CLASSES_ROOT\Record\{FA09B9A1-660E-31F9-BF72-F8552AC6E593}\1.0.0.0]
[HKEY_CLASSES_ROOT\Record\{445FE17C-97D1-3EF4-BB90-9EE99DFA5101}]
[HKEY_CLASSES_ROOT\Record\{445FE17C-97D1-3EF4-BB90-9EE99DFA5101}\1.0.0.0]
[HKEY_CLASSES_ROOT\Record\{462E89CA-72CA-3819-9042-18F92126045A}]
[HKEY_CLASSES_ROOT\Record\{462E89CA-72CA-3819-9042-18F92126045A}\1.0.0.0]
[HKEY_CLASSES_ROOT\Record\{FA09B9A1-660E-31F9-BF72-F8552AC6E593}]
[HKEY_CLASSES_ROOT\Record\{FA09B9A1-660E-31F9-BF72-F8552AC6E593}\1.0.0.0]
```

HKEY_CURRENT_USER

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

```
HKEY_CURRENT_USER\Software\MatchWare\MindView 9.0\
```

Windows Installer uninstall information

This information is located here:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{2
362E9E0-141A-48FE-8DE8-72761BC57571}
```

Windows Search

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

```
%programfiles%\MatchWare\MindView 9.0\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, build number, language, product ID and computer ID which is generated from the hardware configuration. By using the Product you consent to the transmission of this information. The activation can either be done by login or by entering a license key.

The activation/login is using the site: <https://accounts.matchware.com>

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MIME-type

application/matchware.mindview.document .mvd .mvt .omp .omt .mvd .omd

Asynchronous Pluggable Protocol: MindViewOpen

MindView Drive

MatchWare MindView Drive is an online document storage platform.

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

The MindView Drive is located here: <https://www.sharedworkspace.com>

More information about MindView Drive can be found here:

https://link.matchware.com/mvdrive_technical_spec

MindView Task System

The MindView Task System is available directly from the MindView backstage view. The MindView Task system is served from <https://cdn.matchware.com> and communicates with the Task System API using the Hypertext Transfer Protocol Secure (HTTPS) via the standard port 443 to the following URL:

<https://api.mindview.app>.

MindView Assist

MindView Assist is a Research and Task app available for iOS from the Apple Store (<https://apps.apple.com/app/id1627489152>) and for Android from the Play Store (<https://play.google.com/store/apps/details?id=com.matchware.mindview.resapp>).

The app can be used to gather research information which can then be used directly within MindView. MindView Assist also manages task information which can be synchronized with tasks within MindView.

MatchWare MindView communicates with the MindView Assist API using the Hypertext Transfer Protocol Secure (HTTPS) via the standard port 443 to the following URL: <https://api.mindview.app>.

MindView AI

The incorporated AI functionality in MindView utilizes the OpenAI engine. When using the AI features you accept and agree to use them in a manner that does not violate OpenAI Policies (<https://openai.com/policies>).

The MatchWare MindView AI system is loaded from <https://cdn.matchware.com> and the service communicates with the AI using the standard port 443 to the following URL: <https://ai.mindview.app>. Only authenticated users will be able to use the service and MatchWare reserves the right to limit the service for users making over extensive use of the AI service.

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MindView Update Checker

MindView comes with 2 types of update checkers. The first update checker will by default check for program updates during product activation. If an update is available MindView will notify the user within the application. The program updates require administrator privileges to install the updated version. The second updater will auto-update program functionality for sections in MindView. If an update is available MindView will automatically download and apply the update during the next startup. This update does not require administrator privileges.

It is possible to disable the program updates and auto-updates from the installer or within the MindView Preferences.

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 9.0\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 9.0\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
```

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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)

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