

Large-Scale Deployment Guide

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ABOUT THIS GUIDE

Many customers have requested support for customized deployment of MindManager to large numbers of client machines. This document provides complete information about large-scale deployments.

Topics include:

- Running the standard setup manually or automatically (page 6)
- Running the admin setup manually or automatically (page 6)
- MindManager components (page 8)
- Deploying using the installation wizard (page 21)
- Deploying from the command line(page 27)
- Deploying with Windows Active Directory(limited support) (page 38)
- Deploying with Windows Server running Terminal Services (page 40)
- Deploying with Citrix Presentation Server (page 42)

Note: Installing MindManager on a Shared network drive is not supported.

Note: To use MindManager with Microsoft SharePoint, you must purchase and install MindManager Enterprise.

Throughout this document, Add-ins specific to Windows 7 32-bit include “32” at the end of the Add-in name; those specific to Windows 7 64-bit have “64” at the end of the Add-in name.

MindManager Support Help

For technical support with this product, go to http://www.mindjet.com/support. Here you will find links to the Knowledge Base articles, User Forums, and other online resources. You can also submit a support request for additional assistance.

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SYSTEM REQUIREMENTS FOR MINDMANAGER INSTALLATION

Table 1: Installation Requirements

REQUIREMENTS	SUPPORTED OPERATING SYSTEMS	ADDITIONAL REQUIREMENTS TO USE CERTAIN FEATURES
▪ IBM® or compatible Pentium® processor (1 GHz or greater) ▪ 2GB RAM or greater ▪ 830 MB disk space ▪ SVGA (1024 x 768/16-bit color or greater) ▪ Microsoft .NET 4.5.1 or higher	▪ Microsoft® Windows® 10 32-bit and 64-bit ▪ Microsoft® Windows® 8 and 8.1 32-bit and 64-bit ▪ Microsoft® Windows® 7 Service Pack 1 32-bit and 64-bit **Large Scale Deployments** ▪ Citrix XenApp Version 6.5 ▪ Microsoft Windows Server 2008 R2 64-bit and later ▪ Microsoft Windows Server® 2003 32-bit	▪ Microsoft Office Professional 2010, 2013 or 2016 or 2013 (32-bit and 64-bit) ▪ Microsoft Project® 2010, 2013 or 2016 (32-bit and 64-bit) ▪ Microsoft SharePoint 2010 or greater Enterprise, Standard and Foundation servers * ▪ Internet Explorer 11.0 or greater ▪ Broadband Internet Connection * To use MindManager with Microsoft SharePoint, you must purchase and install MindManager Enterprise.

If deploying MindManager in a terminal server environment, the following are prerequisites:

- Windows Server 2008 running Terminal Services

  or

- Citrix XenApp 6 64-bit

Using this method, each client machine must also meet the software and hardware requirements. When running MindManager on a terminal server, the client must be able to connect and handle RDP. The server requirements depend on the number of clients.

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UNDERSTANDING DEPLOYMENT STRATEGIES

This section provides an overview of different deployment strategies, including their basic technologies, advantages, limitations, and their level of support.

Running the Standard Setup Manually or Automatically

You can deploy MindManager on a machine-by-machine basis using the standard setup (**`MindManager.exe`**) by installing from the physical CD, or from a centrally accessible server. The standard setup is robust, interactive, and user-friendly, but *does not support customized deployment*.

Using the standard setup has these advantages:

- MindManager installs and operates properly on supported systems
- It requires no additional software or server resources
- Users with local administration privileges can manage the update process individually

And these disadvantages:

- Manual installation is time-consuming
- The installed software uses up disk space on each user's system
- Centralized administration becomes more difficult

Running the Admin Setup Manually or Automatically

The MindManager Admin setup provides more control over installation and administration. You can run the admin setup from a server manually, or via a log-on script. If you use Windows Active Directory, Group Policy, and IntelliMirror, you can install on groups of user systems.

Using the admin setup has these advantages:

- MindManager installs and operates properly on supported systems
- It requires no additional software or server resources
- You can customize installations on a per-group or per-user basis
- You can run the installation silently
- The installer is not cached on the client machine, reducing the required disk space

And these disadvantages:

- Access to the original installer is required for repair and other setup operations

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Other Deployment Options

Deploying with Active Directory

This method is not yet fully supported. Due to the application architecture, MindManager only supports Computer-based Software installations via Active Directory. *User-based deployment is not supported.* Using a third party tool such as Orca allows you to edit properties for deployment. For more information, see *Deploying with Active Directory*, page 38.

Deploying with Windows Server

Deploying MindManager from a terminal server to a thin client is another supported option. With this architecture, it is possible (for example), to “run” a Windows application on a Windows client machine, where one server services many clients. You need to deploy MindManager using Windows Server Terminal Services to use full color mode in MindManager. For more information, see *Deploying with Windows Server*, page 40.

Deploying with Citrix XenApp

The Citrix XenApp is a sophisticated terminal server environment built on top of the Windows Terminal Services provided by Windows Server. This is currently the only tested and supported Citrix platform for MindManager (although other combinations may work). For more information, see *Deploying with Citrix Presentation Server*, page 42.

Using System Management Software and a Custom Setup

System management software, such as Microsoft System Management Server, enables you to centrally install and administer client machines. While you can deploy MindManager using such software, there is no specialized support for this in MindManager. This document supplies much of the information you will need if you choose to deploy in this way.

Using system management software has these advantages:

- You can deploy the software to many machines with one command
- You can create different setups for different groups of users
- Updating the software is simple

And these disadvantages:

- You must have system management software in place
- It takes time to create the custom setup
- The installed software uses up disk space on each user's system

Deploying on a Shared Network Drive

MindManager does not support installing on a shared network drive and having users run it directly from there.

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WHAT GETS INSTALLED

The Admin setup installs:

- Required program files
- Configurable components
- Shortcuts and Start Menu items
- Third-party add-ins or components
- Shared system software
- Registry keys

The default location for required program files is:

C:\Program Files\Mindjet\MindManager 17

This folder contains **MindManager.exe**, application DLLs, and third party components. No user files are stored in this folder.

MindManager uses merge modules to install required system software, such as **ATL80.dll**. If MindManager uses a later version of a component than one already installed on the machine, MindManager installs the required version during deployment. For more information, see Shared System Software, below.

The first time a user runs the application, user data is placed in the default location **C:\Users\[username]\AppData\Local\Mindjet\MindManager\17**, where **username** is the current user name. You must enable viewing hidden files to see this directory.

The first time a user starts the application, the application also searches to determine if a Microsoft Office custom dictionary exists for that user.

- The first location searched is **C:\Users\[username]\AppData\Roaming\Microsoft\UProof\CUSTOM.DIC** (for Unicode).
- If the dictionary is not found there, MindManager checks for the ANSI version (which is used in earlier Office versions) at **C:\Users\[username]\AppData\Roaming\Microsoft\Proof\CUSTOM.DIC**.

If the user-specific Microsoft Office custom dictionary is found, a reference to that dictionary is added to the list of spelling dictionaries.

MindManager stores maps at this default location:

C:\Users\[username]\Documents\My Maps

MindManager Components

The application installs a variety of configurable components, including:

- Library
- Dictionary

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User configuration files are also installed to help govern their behavior.

Library

The Library component consists of several sub-components:

- **Background Images**: a library of map background wallpapers
- **Icons**: a library of symbols to indicate, at a glance, the status of an item
- **Images**: a library of pictures to help make maps more memorable
- **Map Marker Lists**: the library of user-created collections of map markers
- **Map Parts**: a library of insertable topic structures
- **Shapes**: a library of different topic shapes
- **Styles**: a library of MindManager map themes to customize the map's overall appearance
- **Templates**: a library of map templates to provide a jump start on map creation
- **Web**: a library of web templates to format web pages

These are optional but highly recommended components.

The library is not uninstalled if you uninstall the application; this content is preserved for users upgrading to newer versions.

The default location for the Library is:
C:\Users\[username]\AppData\Local\Mindjet\MindManager\17\Library\[language] where **language** is ENU (English), FRE (French), GER (German), or RUS (Russian).

You may wish to install the library to a different location. See the documentation for deploying with the Installation Wizard (page 21) or from the command line (page 27) for instructions.

Dictionaries

The Dictionaries component contains both spell check and autocorrect dictionaries, including dictionaries for over 10 languages. When using the installer, you can choose which dictionaries to install. You can also control dictionary installation from the command line.

Spell check dictionaries are removed during the uninstall process, but the autocorrect dictionaries are preserved for users upgrading to newer versions of the application.

The default location for spell check Dictionaries is:

```
C:\Program Files\Mindjet\MindManager 17\sys\spell
```

The default location for autocorrect Dictionaries is:

```
C:\Users\[username]\AppData\Local\Mindjet\MindManager\17\Spell
```

User Configuration Files

MindManager creates and stores user configuration files for different purposes.

Table 2: Configuration Files

FILE NAME	LOCATION AND FUNCTION
ImagePropertyDatabase.dat	`C:\Users\[username]\AppData\Local\Mindjet\MindManager\17` The application runtime, not the installer, creates this file dynamically. It

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FILE NAME	LOCATION AND FUNCTION
	collects information about keywords assigned by the user to images.
UserData.ini	`C:\Users\[username]\AppData\Local\Mindjet\MindManager\17` This file detects the first time a user launches the application and initiates procedures such as registry cleanup.
Library.ini	`C:\Users\[username]\AppData\Local\Mindjet\MindManager\17\Library\[language]` This file detects the library installation time. Because the application installs the library the first time it is launched, this file prevents multiple library installations.

Shortcuts and Start Menu Items

The installer puts a shortcut to the program on the Windows Desktop, the Windows Send To menu and in the main Start menu. It creates a **`Mindjet MindManager 17`** folder in the **`Start >Programs`** folder with a shortcut to MindManager in it.

The MindManager shortcut is an “advertised shortcut” to the program that automatically checks to determine if the program needs to be repaired before it is run. If a repair is needed, it is performed then. If you do not want to use this self-repairing feature, you can create a shortcut directly to the **`MindManager.exe`** file instead. Deleting this copy of the installer disables the self-repair service as well.

Shared System Software

Some shared software must be installed on your system before using the admin setup. During installation, MindManager uses merge modules to install other missing software, such as PIPanel.msm. Missing components are installed from the modules. Depending on the host machine’s configuration, the merge module installs the components required for that machine.

These shared components are not uninstalled automatically. Their default locations are indicated below.

Table 3: Location of Shared System Components

COMPONENT	FOLDERS AND FILES

Ink related files	`%CommonProgramFiles%\Microsoft Shared\Ink`
	▪ `InkObj.dll`
	▪ `tpcps.dll`
	▪ `PIPanel.exe*`
	▪ `PIPanel.dll*`
	▪ `GdiPlus.dll`
	`%WINDIR%\system32`
	▪ `InkEd.dll`
	▪ `PipRes.dll*`

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COMPONENT	FOLDERS AND FILES
	▪ `wisptis.exe` * *These components are installed only on Tablet PCs.*
C++ runtime libraries	`%WINDIR%\system32` ▪ `msvcp60.dll` ▪ `msvcp80.dll` For a complete list of these merge modules' components, see Microsoft's documentation

Environment variable names (e.g. "`%CommonProgramFiles%`") are expanded to their actual values (e.g. "`C:\Programs Files\Common Files`") by the installer.

Third-Party Software

MindManager uses specific third-party software. Unless otherwise stated, the installer checks to learn if the component is present on the system. If not, or if the application uses a newer version, the application installs or updates the software. The setup process places third-party software at `C:\Program Files\Mindjet\MindManager 17\`, and removes during the application uninstall process.

Table 4: Third-Party Software Overview

THIRD-PARTY SOFTWARE	DESCRIPTION AND VENDOR
atl70.dll	▪ Active Template Library, template-based C++ classes, creates COM objects ▪ Microsoft
BCGCBPRO2310u.dll **BCGPStyle2010Black2310.dll** **BCGPStyle2010Blue2310.dll** **BCGPStyle2010White2310.dll**	▪ BCG Control Bar Professional DLL ▪ BCGSoft Ltd. Portions
Blowfish algorithm	▪ 128-bit encryption for password protection ▪ Schneier Publishing
extensibility.dll	▪ Allows addition of add-ins ▪ Microsoft
HTS32MM.dll (for 32-bit) **hts64mm.dll (for 64-bit)**	▪ An HTML control that supports inserting pictures, hyperlinks, tables, and other objects into RTF text ▪ Sub Systems, Inc.
Independentsoft.Webdav.dll	▪ WebDAV protocol client API for .NET Framework ▪ Independentsoft
libtidyU.dll **libtidy64U.dll (for 64-bit)**	▪ HTML Tidy fixes a variety of HTML issues ▪ WWW Consortium

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THIRD-PARTY SOFTWARE	DESCRIPTION AND VENDOR
matrix.dll	▪ Map co-editing engine ▪ AG Software
Microsoft .NET Framework	▪ Microsoft Web Services Enhancements 4.0 for Microsoft Windows Communication Foundation ▪ Microsoft
Mfc80.dll	▪ Microsoft Foundation Classes, wrap Windows APIs in C++ libraries, forming application framework ▪ Other components are associated with this .dll. See Microsoft's documentation for complete information. ▪ Microsoft
	▪ Microsoft C++ Runtime Library ▪ Microsoft
redemption.dll **redemption64.dll (for 64-bit)**	▪ Supports Microsoft Outlook Integration
Sax Basic Engine	▪ Components that enable VB-like scripting
ww10_000.chm **ww10_32w.dll (for 32-bit)** **ww10_64.dll (for 64-bit)**	▪ Support WinWrapBasic from Polar Engineering ▪
Spr32du80.dll (for 32-bit) **Spr64du80.dll (for 64-bit)**	▪ FarPoint Spreadsheet Control ▪ FarPoint Technologies, Inc.
Ssce5532.dll (for 32-bit) **Ssce5564.dll (for 64-bit)**	▪ Spell checker engine ▪ Wintertree Software, Inc.
Ter32mm.dll (for 32-bit) T**er64mm.dll (for 64-bit)**	▪ RTF edit control ▪ Sub Systems, Inc.
Vic32.dll (for 32-bit) **Vic64.dll (for 64-bit)**	▪ Image processor ▪ Catenary Systems, Inc.
vsflex8n.ocx	▪ VSFlexGrid8 (Unicode) helps display, edit, and format tabular data in spreadsheets. Helps integrate with Microsoft Excel. ▪ ComponentOne
zlib.dll **zlib64.dll**	▪ Lossless data compression library ▪ Jean-Loup Gailly and Mark Adler

ThirdPartyReadMe

See the link below for additional legal information regarding Mindjet's use of third-party software:

http://www.mindjet.com/legal/thirdpartyreadme.

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The ReadMe can also be found in the installation directory:

`C:\Program Files\Mindjet\MindManager 17\THIRDPARTYREADME.txt`

Registry Keys

The installer places any per-machine Mindjet registry settings in or below the key:

`HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17`

These are the settings used by the application and its add-ins on a per-machine basis. No per-user values are stored in this key.

Following Windows guidelines, the application registers its associated file types, COM objects, etc., in sub-keys of **`HKEY_CLASSES_ROOT`**.

Table 5: Registry Key Overview

KEY TYPE	LOCATION/KEY
HKEY_LOCAL_MACHINE	`HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17`
HKEY_CLASSES_ROOT	`HKEY_CLASSES_ROOT\`...(all keys below this level) ▪ .mmap ▪ .mmas ▪ .mmat ▪ .mmbas ▪ .mmmp ▪ .mmms ▪ .mmp ▪ Mindjet.MindManager.Custom.Document ▪ Mindjet.MindManager.Document.x ▪ Mindjet.MindManager.Document.Template.x ▪ Mindjet.MindManager.Macro.x ▪ Mindjet.MindManager.MapMarker.x ▪ Mindjet.MindManager.MapMarkerSet.x ▪ Mindjet.MindManager.MapPart.x ▪ Mindjet.MindManager.Style.x ▪ Mindjet.Mm5GenericSmartMapPart.AddIn ▪ Mindjet.Mm5GenericSmartMapPart.AddIn.x ▪ Mindjet.Mm5Sort.AddIn ▪ Mindjet.Mm5Sort.AddIn.x ▪ Mindjet.Mm5WebExportAddIn ▪ Mindjet.Mm5WebExportAddIn.x ▪ Mindjet.Mm10ExcelLinker.AddIn.x ▪ Mindjet.Mm10ExcelLinker.AddIn ▪ Mindjet.Mm10MsProject.AddIn ▪ Mindjet.Mm10MsProject.AddIn.x ▪ Mindjet.Mm10Outlook.AddIn ▪ Mindjet.Mm10Outlook.AddIn.x ▪ Mindjet.Mm10OutlookLinker.AddIn ▪ Mindjet.Mm10Outlooklinker.AddIn.x ▪ Mindjet.Mm10PPExport.AddIn

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KEY TYPE	LOCATION/KEY
	▪ Mindjet.Mm10PPExport.AddIn.x ▪ Mindjet.Mm10Project.AddIn ▪ Mindjet.Mm10Project.AddIn.x ▪ Mindjet.Mm10Word.AddIn ▪ Mindjet.Mm10Word.AddIn.x ▪ MindManager.Application ▪ MindManager.Application.x ▪ MindManager.Color ▪ MindManager.Color.x ▪ MindManager.TextFont ▪ MindManager.TextFont.x ▪ Mm5WebExport.Page ▪ Mm5WebExport.Page.x ▪ Mm5WebExport.Pages ▪ Mm5WebExport.Pages.x ▪ Mm5WebExport.VariantSets ▪ Mm5WebExport.VariantSets.x ▪ Mm5WebExport.WebExport ▪ Mm5WebExport.WebExport.x ▪ Mm5WebExport.WebExports ▪ Mm5WebExport.WebExports.x ▪ MM8InternetExplorer.BHO ▪ MM8InternetExplorer.BHO.x
Uninstall Key	`HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall`
HKEY_CURRENT_USER	`HKEY_CURRENT_USER\Software\Mindjet\MindManager\17`

Uninstall information for the program is stored in a sub-key of:

`HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall`

The name of the sub-key is the Globally Unique Identifier (GUID) for the program (which changes with each release). You can find it by using RegEdit to search for “MindManager” in the Uninstall key. The uninstallation key does not remain after uninstalling.

When a user runs the application, any per-user registry settings are stored in or below the key:

`HKEY_CURRENT_USER\Software\Mindjet\MindManager\17`

Some Current User keys remain after uninstalling. These keys help preserve user data for upgrading to the next version of MindManager.

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WHAT REMAINS AFTER UNINSTALLATION

When you uninstall, almost all traces of the application are removed, including all components located at **`C:\Program Files\Mindjet\MindManager 17`**. Most registry keys are removed as well. Map files (**`.mmap`** files) *are not* deleted.

On Microsoft Windows 7 or any other system where the system administrator has disallowed the use of RegEdit to export the registry key (i.e. DisableRegistryTools is set), the registry key is backed up to a MindManager registry subkey under:

`HKCU\Software\Mindjet\MindManager\MMX17RegistryBackup_<date>_<time>.`

Otherwise the keys are stored under

`C:\My Documents\MMX17RegistryBackup_<date>_<time>`

Some the remnants of the application are left behind. These are needed to preserve user data when upgrading to a newer version. See *Remaining Files, Folders, and Software Components* (page 16) and *Remaining Registry keys* (page 16) for more information.

Remaining Files, Folders, and Software Components

When you uninstall, the installer leaves behind some components it installed with the program. The tables below reflect the most common remaining components and registry keys. The actual list may vary depending upon the installation and deployment. In general, components left behind fit one of these scenarios:

- User data (the library, images, and templates) remains to support upgrading to the next version *or*
- Shared components, such as C++ libraries, and their registry keys get left behind because they may be required for other purposes

  or

- A backup of your registry

Table 6: Remaining Files, Folders, and Software components

COMPONENT	LOCATION AND EXPLANATION
C++ runtime libraries	See *Shared System Software* (page10) for locations. These files may be in use by other applications.
Ink related files	See *Shared System Software* (page10) for locations. These files may be in use by other applications.

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COMPONENT	LOCATION AND EXPLANATION
MMX17RegistryBackup_<date>_<time>	C:\MyDocuments\ Opening this file gives you the option to add its contents to your current registry.
msvcp60.dll	`%WINDIR%\system32` This software may be in use by other applications.
msvcrt.dll	`%WINDIR%\system32` This software may be in use by other applications.
XML-related files	See *Shared System Software* (page10) for locations. These files may be in use by other applications.
User Data	`C:\Users\[username]\AppData\Local\Mindjet\MindManager\17` Contains dictionaries, images, templates dictionaries etc. that the user may have customized. Does not uninstall so the user does not lose this data when upgrading.

Remaining Registry Keys

Table 7: Remaining Registry Keys

REGISTRY KEY	LOCATION AND EXPLANATION
HKEY_CLASSES_ROOT	`HKEY_CLASSES_ROOT\` ▪ .mmap ▪ .mmp These keys register .mmap file extensions.
HKEY_CURRENT_USER	`HKEY_CURRENT_USER\Software\Mindjet\MindManager\17\` Keys at or below this preserve user data for upgrading.

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USING THE ADMIN SETUP

The Admin setup gives systems administrators more control over an installation. It is distributed in a .zip archive that contains the following files:

- **Mindjet MindManager 17 Admin.msi**

  The MindManager Microsoft installer.

- **`dotNetFx451_web_setup.exe`**

  Microsoft's .NET Framework redistributable setup.

- **`instmsi30.exe`**

  Microsoft Windows Installer engine setup. (Normally this is already on the target system.)

- **`msxml6_x86.msi`**(for 32-bit) or **`msxml6_x64.msi`** (for 64-bit)

  The MSXML 6.0 installer.

- **`vcredist_2013_x86.exe (for 32-bit or 64-bit running 32-bit) or vcredist_2013_x64.exe (for 64-bit)`**

  Microsoft Visual C++ run-time environment for version 2013 (including 2010 and 2013 for 64-bit machines).

- MindManager_Large_Scale_Deployment_Guide.pdf

  This Deployment Guide.

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Using the admin setup gives you nearly complete control over your deployment, including:

- Deploying (or not deploying) specific components
- Disabling functions, such as internet access
- Storing components on network drives, such as user data or the library

You also have the option of configuring many items from the registry.

Required Software

All required software is in included in the Admin setup package. It contains some software that must be installed on your system before using the setup. You should verify that this software is already installed on your system; if not, install it from the admin package.

- **`vcredist_2013_x86.exe`** or **`vcredist_2013_x64.exe`** installs the VC++ Redistributable components for Visual Studio 2013.

  Check for existence of registry key.

  For **`vcredist_2013_x86.exe`**, the registry key is:

  `HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{13A4EE12-23EA-3371-91EE-EFB36DDFFF3E}`

  For **`vcredist_2013_x64.exe`**, the registry key is:

  `HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\{A749D8E6-B613-3BE3-8F5F-045C84EBA29B}`

  Or simply re-install.

- **`vcredist_2013_x86.exe`** installs the VC++ Redistributable components for Visual Studio.

- **`msxml6_x86.msi`** or **`msxml6_x64.msi`** installs the MSXML 6.0 SP1 Parser

  Check the installed programs in the Control Panel to check existing installation.

- **`dotNetFx451_web_setup.exe`** installs the Microsoft Net Framework

  Check the installed programs in the Control Panel to check existing installation. This install can take quite a long time.

-

Note: You should check for and install any missing components *in the order listed* above.

Required Permissions and Privileges

Administrator privileges are required to install any Windows software, including MindManager.

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No special privileges or disk permissions are required to run the application. A user can run the program as a restricted user, a “normal” user, a power user, or an administrator. The program does assume that the user has read/write/create privileges in the **HKEY_CURRENT_USER** registry key as well as in the user profile section of the hard disk and below.

Differences between the Standard and Admin Setups

The Admin setup is based on the standard setup—with a number of important differences:

Caching: The admin setup does not cache the setup on the computer where it is being installed. Instead, the setup should be run from a network location that remains accessible from the workstation at all times. This ensures proper operation of the Modify, Repair, and Remove entries in the “Add/Remove programs” Control Panel applet, and avoids duplication of the installation source on every system where the application is installed.

Patching: Admin setups are only delivered as full setups, not patch setups. The reason for this is that system administrators might modify the admin setup to suit the needs of their individual company. If the installation database is transformed in this way, a future patch would not be able to properly update the installation. We avoid this problem by not delivering patch updates at all for our admin setups. To upgrade, you need to uninstall the previous version and install the upgrade.

Packaging: We exclude the Microsoft Windows Installer engine and .NET Framework installer. Both components must be installed prior to running MindManager.msi if they are missing from a user’s machine.

User Data: The admin setup includes the option to specify the location of user data.

Library Files: There is also an option to have the application extract the library files as usual, or to have the administrator set this up “manually,” ahead of time. For more information, see *Deploying User Data and the Library to a Server*, page 23.

Installing MindManager: An Overview

This section gives an overview of the admin setup and application components. With this information, you can understand the installation process and determine what you may wish to customize for your deployment.

Per-machine Setup

The setup installs the program on a client machine and only sets per-machine registry settings in the **HKEY_LOCAL_MACHINE** and **HKEY_CLASSES_ROOT** registry keys. It does not directly create or set any registry keys or values in the **HKEY_CURRENT_USER** registry key.

The installer installs all program files to this default folder:

```
C:\Program Files\Mindjet\MindManager 17
```

Administrator privileges are required to install any Windows software, including MindManager.

Per-user Setup

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Each time the application launches, it checks the UserData.ini file, located in **C:\Users\[username]\AppData\Local\Mindjet\MindManager\17** to determine if a per-user setup needs to be performed.

If this file is missing, or if the version of the application installed is newer than the version the user last ran, then MindManager prepares for a “new” per-user installation by deleting the following registry key:

HKEY_CURRENT_USER\Software\Mindjet\MindManager\17\User Interface

The application also determines if the per-user application data files (outline print templates and spell check auto-correct dictionaries) are present. If not, it copies them from the “All Users” folder:

C:\Users\[username]\AppData\Local\Mindjet\MindManager\17

Finally, the application determines if the per-user Library files need to be installed using the same UserData.ini algorithm described above and checks the **LSDLibraryExtract**. If the registry is not set to 0, then a separate background task/program is run to unzip the library files from a MindManager sub-folder:

C:\Program Files\Mindjet\MindManager17\sys\[language]

The Vista system folder structure uses environmental variables instead of real paths. Note the different path structure below:

%USERPROFILE%\Local Setting\Application Data\Mindjet\MindManager\17

%ALLUSERPROFILE%\Application Data\Mindjet\MindManager\17

%ProgramFiles%\Mindjet\MindManager17\sys\[language]

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DEPLOYING WITH THE INSTALLATION WIZARD

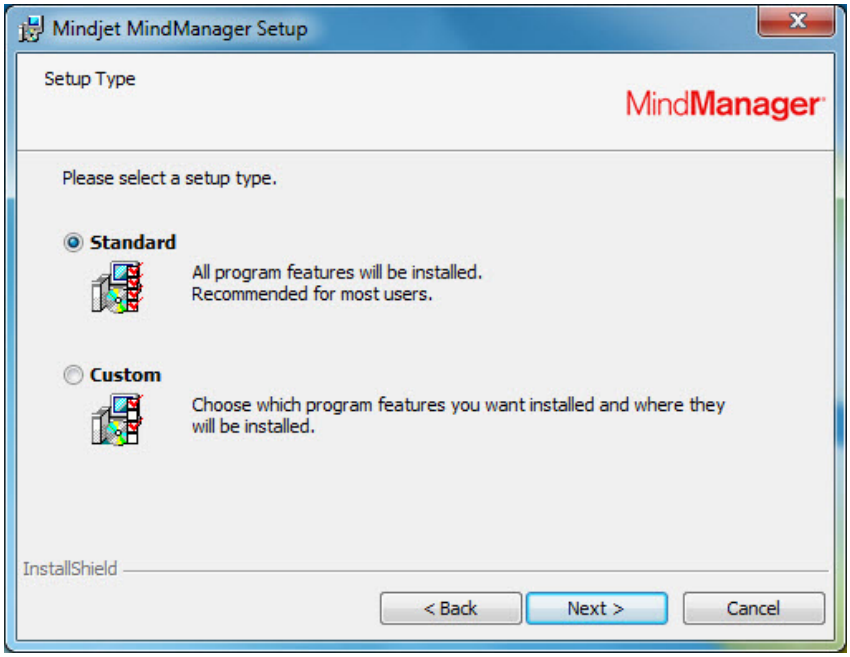
Using the admin setup to install the application is straightforward and simple. Unlike the basic setup, you have customization options, though not as many as from the command line.

Starting the Installation

To install the application:

1. Launch the installer.
2. At the welcome screen, click **Next**.
3. Select “I agree to the terms of the license agreement” and click **Next**.
4. Enter the Customer Information (User Name and Organization).
5. Click **Next**.

The Setup Type dialog appears.



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At this point, you can customize your deployment or complete the installation (page 25).

Customizing the Installation

A custom installation allows you to:

- Disable default features
- Change the default installation folder
- Deploy user data and the library on a separate server

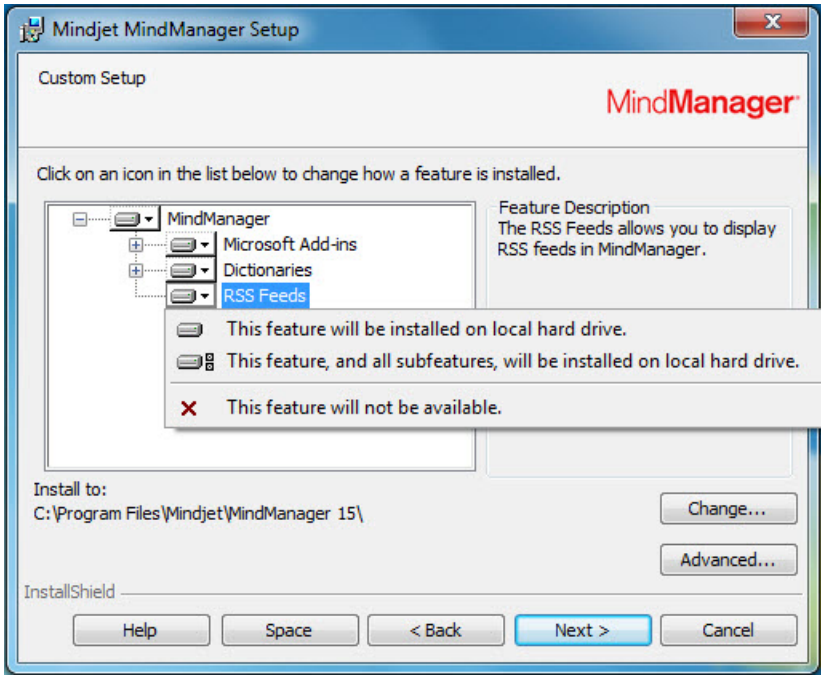
If you need to customize the installation beyond these parameters, see *Deploying from the Command Line* (page 27).

Disabling Default Features

To disable the default installation features:

6. Complete steps 1-5 in *Starting the Installation* (page 21).
7. Select Custom and click **Next**.

   The Custom Setup dialog appears.
8. In the tree, select a feature whose default installation you want to change.
9. Click the down arrow button .
10. Select the desired feature setting.



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For each selected feature, a description and storage requirement appears.

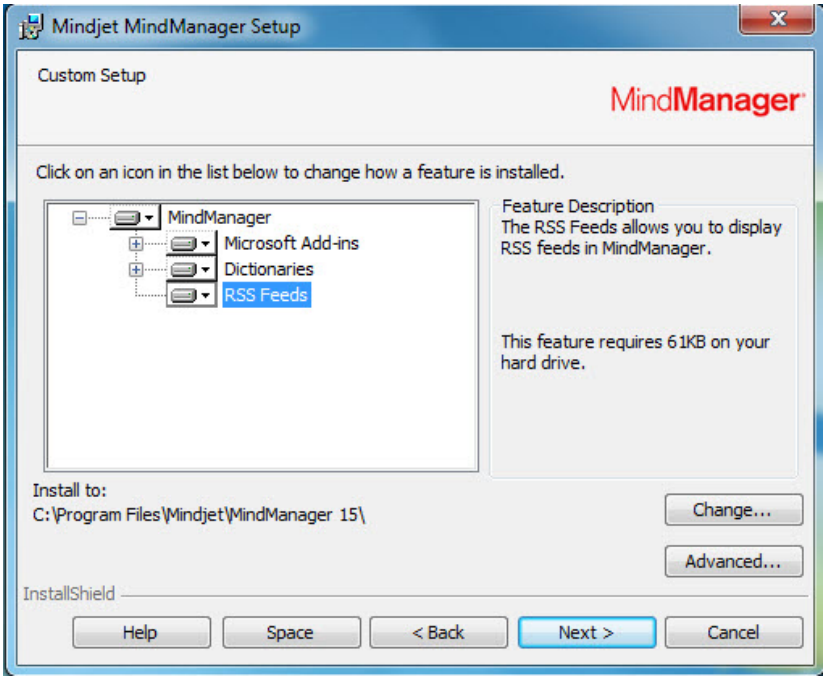
11. Repeat this process until you have made all of your feature customization choices.
12. Complete the installation as outlined in *Completing the Installation* (page 25).

Changing the Default Installation Folder

To change the default installation folder:

13. Complete steps 1-5 in *Starting the Installation* (page 21).
14. Select Custom and click **Next**.

The Custom Setup dialog appears.



15. Click Change.

The Change Current Destination Folder dialog appears.

16. Select the destination folder.
17. Click **OK**.

The new destination folder appears in the Custom Setup dialog.

18. Complete the installation as outlined in *Completing the Installation* (page 25).

Deploying User Data and the Library to a Server

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MindManager installs a “Library” folder containing:

- Background Images
- Icons
- Images
- Map Parts
- Shapes
- Styles
- Templates
- Web Export Templates

The entire library consists of several megabytes. By default, these files are stored on a per-user basis in this folder:
`C:\Users\[username]\AppData\Local\Mindjet\MindManager\17\Library\[language]`
where language is ENU (English), FRE (French), GER (German), or RUS (Russian).

You can store user data and the library in a network folder for if you wish to:

- Save space on users' systems
- Decrease the time required to run the program the first time
- Allow roaming user’s access to their customized libraries
- Assure that all users have a fixed, easily updatable set of library files

You can install these files once to a common location (perhaps in a read-only folder). Multiple users can then share the files, or a single user can access them from multiple machines. If a user needs to edit these files, install them in a directory with write privileges.

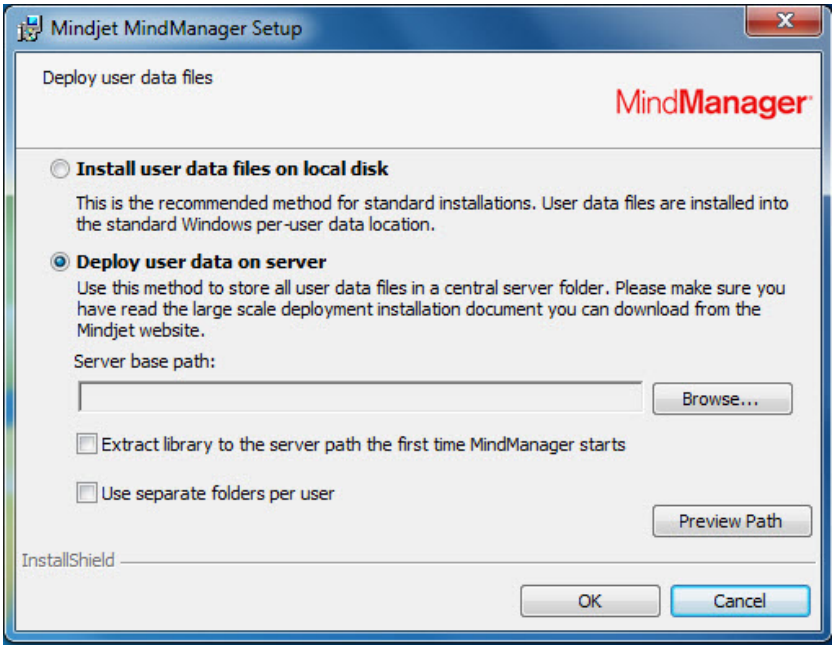
You cannot install user data and the library to separate locations from the installation wizard. To install them separately, you must install them from the command line (page 27).

To deploy user data and the library to a server:

19. Complete steps 1-5 in *Starting the Installation* (page 21).
20. From the Custom Setup dialog, click **Advanced**.

    The Deploy User Data Files dialog appears.
21. Select Deploy user data on server.

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22. Click **Browse**.

    The Browse for Folder dialog appears.

23. Select the destination folder.
24. Click **OK**.

    The new directory appears in the Server base path field.

25. Choose from the following options:
    - Extract library to the server path the first time the application starts
    - Use separate folders per user

We recommend selecting both of these options to avoid needing to configure the user data folder and the library folder separately. You may want to create the user folders before installation, giving you the chance to make the files read only.

26. Click **OK** to close the dialog.
27. Complete the installation as outlined in *Completing the Installation* (page 25).

These are all of the customization choices available from the installer interface. You have more control if you deploy from the command line (page 27).

Completing the Installation

To complete the standard installation:

28. Select Complete and click **Next**.

    The Ready to Install dialog appears.

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29. Choose your shortcut options.
30. Click **Install**.
31. After the installation is complete, choose from the following options:
    - Launch MindManager
    - Register MindManager
32. Click **Finish**.

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DEPLOYING FROM THE COMMAND LINE

While you may wish to customize your deployment from the installer interface (page 22), you have much greater control over the installation from the command line, including:

- Configuring installation parameters (page 27)
- Specifying what to install on a feature by feature basis (page 28)
- Enabling or disabling program functions
- Specifying where to install libraries, and user data (page 34)
- Using a custom SharePoint SiteConnections.xml file (page 57)*

**To use MindManager with Microsoft SharePoint, you must purchase and install MindManager Enterprise.*

This section identifies what you may configure and provides examples of command line arguments for customizing your deployment. A sample installation command demonstrating most of these options is included in *Sample Setup Commands* (page 36).

Configuring Installation Parameters from the Command Line

You can set a number of public properties with command line options.

Table 8: Configuring Installation Parameters from the Command Line

PARAMETER	DESCRIPTION OF VALUES
INSTALLDIR	Specifies where the application should install the program. For example: "`C:\Program Files\Mindjet\MindManager 17\`"
RESOURCELANGUAGE	Specifies the language of MindManager. Language values include: “English”, “German”,“French” and “Russian”. For example: `msiexec /i "<directory>\filename.msi" RESOURCELANGUAGE=”German" /qn`

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PARAMETER	DESCRIPTION OF VALUES
ISX_SERIALNUM	Specifies the license key for your installation. Note: No validation is performed for this key, it is simply written to the registry. If the license key is not valid or not specified, the application runs in Viewer mode.
USERNAME	Specifies the User Name for registering the application. Optional parameter; the Windows User Name will be used if this parameter is not supplied.
COMPANYNAME	Specifies the Company Name for registering the application. Optional parameter; the Windows Company Name will be used if this parameter is not supplied.

Configuring Features from the Command Line

The admin setup is a Basic MSI project, not an InstallScript project; there is no record mode to run an install with Setup.iss. Basic MSI projects do not create or use a response file for silent installations.

Tip: When configuring features from the command line, it is better to use /s silent installation to avoid conflicts with properties set through the installer interface. You can remove or add features from the command line by using **ADDLOCAL** or **REMOVE** on a feature by feature basis. To simplify the process, use **ADDLOCAL="ALL"** and then remove features you do not want. Examples are provided below.

Customizing the Installation with Setup.exe

You can use the following options to add or remove features from the command line setup.exe:

```
/v=command line access to msi file

/qn=when used with /v parameter, silent (no user interface) parameter
passed to msi file
```

Here are examples of adding and removing features through the setup.exe file, using silent install:

Adding:

```
<directory>\setup.exe  /v"ADDLOCAL=\"MSWordAddin\" /qn"
```

Removing:

```
<directory>\setup.exe  /v"ADDLOCAL=\"ALL\" "REMOVE=\"MSWordAddin\" /qn"
```

You can also string together multiple features for inclusion or removal:

```
<directory>\setup.exe

/v"ADDLOCAL=\"All\" REMOVE=\"MSWordAddin,RSS\" /qn"
```

Customizing the Installation with MSI

You can use these options to add or remove features from the command line with MSI.exe:

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```
/i=install mode

/qn=silent (no user interface) parameter (Tip: /qn+ will let you know
when it's done)
```

Note: On Windows 7 and above, security features require that you run silent install (/qn) as the Administrator, *not* as a member of the Administrator group.

Here are examples of adding and removing features through the msiexec.exe file, using silent install:

Adding:

```
msiexec /i "<directory>\filename.msi" ADDLOCAL="MSWordAddin" /qn
```

Removing:

```
msiexec /i "<directory>\filename.msi" ADDLOCAL="ALL"
REMOVE="MSWordAddin" /qn
```

You can also string together multiple features for inclusion or removal:

```
msiexec /i "<directory>\filename.msi" ADDLOCAL="ALL"
REMOVE="MSWordAddin,PDFWriter,RSS" /qn
```

Table 9: Configuring Features with MSI from the Command Line

FEATURE	COMMENTS
Library	Available add-ins The default add-in is Library, which installs add-ins below. You can also specify a subset. ▪ Images ▪ Shapes ▪ BackgroundImages ▪ Icons ▪ ImageGallery ▪ TemplateOrganizer ▪ Templates ▪ WebTemplates ▪ Styles ▪ MapParts ▪ Markers Example: `msiexec /i "<directory>\filename.msi" ADDLOCAL="ALL" REMOVE="WebTemplates" /qn`
Dictionaries	Available add-ins The default add-in is Dictionaries, which installs add-ins below. You can also specify a subset. ▪ Swedish ▪ Spanish ▪ Norwegian ▪ BrazilianPortuguese

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FEATURE	COMMENTS
	▪ Italian ▪ Danish ▪ Finnish ▪ CanadianEnglish ▪ USEnglish ▪ UKEnglish ▪ French ▪ Dutch ▪ German Example: **`msiexec /i "<directory>\filename.msi" ADDLOCAL="ALL" REMOVE="CanadianEnglish" /qn`**
Microsoft Add-Ins	Available add-ins: The MSAddins feature is a container for the following Microsoft-related add-ins. Any or all of these sub-features can be all installed by specifying them on the command line. (Examples below clarify this.) MSWordAddin (for 32-bit) or MSWordAddin64 (for 64-bit) MSOutlookLinkerAddin (for 32-bit) or MSOutlookLinkerAddin64 (for 64-bit) MSOutlookMapMinderLinkerAddin (for 32-bit) or MSOutlookMapMinderLinkerAddin64 (for 64-bit) MSPowerPointAddin (for 32-bit) or MSPowerPointAddin64 (for 64-bit) MSProjectAddin (for 32-bit) or MSProjectAddin64 (for 64-bit) MSExcelLinkerAddin (for 32-bit) or MSExcelLinkerAddin64 (for 64-bit) MSIEAddin (for 32-bit) or MSIEAddin64 (for 64-bit) **Note**: This MSAddins feature, and all sub-features, can be removed with **`REMOVE="MSAddins"`** but they cannot be added with **`ADDLOCAL="MSAddins."`** Example: There are three options for including a feature that's not installed: 1. Include the selected feature 2. Include the selected feature and all sub-features 3. Include the selected feature and then select sub-features individually ▪ Using **`ADDLOCAL="MSAddins"`** is equivalent to (1) above. However, this causes no add-ins to be added since MSAddins is just a container for other add-ins, and they need to be specified. ▪ **`ADDLOCAL="MSAddins, MSExcelLinkerAddin,`**

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FEATURE	COMMENTS
	MSIEAddin, MSOutlookLinkerAddin, MSPowerPointAddin, MSProjectAddin, MSWordAddin" or (for 64-bit version) **ADDLOCAL="MSAddins, MSExcelLinkerAddin64, MSIEAddin64, MSOutlookLinkerAddin64, MSPowerPointAddin64, MSProjectAddin64, MSWordAddin64"** is equivalent to (2) above. ▪ Using a subset of **MSIEAddin, MSIEAddin64; MSOutlookLinkerAddin, MSOutlookLinkerAddin64; MSPowerPointAddin, MSPowerPointAddin64; MSProjectAddin, MSProjectAddin; MSWordAddin, MSWordAddin64** is equivalent to (3) above.
RSS	The add-in is RSS Example: **msiexec /i "<directory>\filename.msi" ADDLOCAL="ALL" REMOVE="RSS" /qn**

Configuring Functions from the Command Line

During installation, you can disable some functions by setting the value to "0." For example:

```
msiexec /i "<directory>\Mindjet Admin.msi" /qn ONLINEHELP="0"
```

Table 10: Configuring Functions from the Command Line

FUNCTIONS	EXAMPLES
Macro Support	The function name is MACROUI. Example (msi): **msiexec /i "<directory>\MindjetAdmin.msi" /qn MACROUI="0"**
Shortcuts	The function names are: ▪ SHORTCUTDESKTOP ▪ SHORTCUTSTARTMENU ▪ SHORTCUTQUICKLAUNCH Example: **msiexec /i "<directory>\Mindjet Admin.msi" /qn SHORTCUTSTARTMENU="0"**
Internet Access	The function name is INTERNETACCESS. Example(msi): **msiexec /i "<directory>\Mindjet Admin.msi" /qn**

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FUNCTIONS	EXAMPLES
	INTERNETACCESS="0" Example (setup.exe): **<directory>\setup.exe /s /v"INTERNETACCESS=0 /qn"**
Online Help	The function name is ONLINEHELP. Example (msi): **msiexec /i "<directory>\Mindjet Admin.msi" /qn ONLINEHELP="0"** Example (setup.exe): **<directory>\setup.exe /s /v"ONLINEHELP=0 /qn"**
UI Customization	The function name is UICUSTOMIZATION. Example (msi)**:** **msiexec /i "<directory>\Mindjet Admin.msi" /qn UICUSTOMIZATION="1"** Example (setup.exe): **<directory>\setup.exe /s /v"UICUSTOMIZATION=1 /qn"**
Disable Attachments	The function name is DISABLEATTACHMENTS Example (msi): **msiexec.exe /i "Mindjet Admin.msi" DISABLEATTACHMENTS=1 /qn**
Disable Box (From Add Places)	The function name is ENABLEBOX Example (msi): **msiexec.exe /i "Mindjet Admin.msi" ENABLEBOX=0 /qn**
Disable Mindjet Cloud (From Add Places)	The function name is MINDJETCLOUD **Example (msi):** **msiexec.exe /i "Mindjet Admin.msi" MINDJETCLOUD=0 /qn**
Disable SharePoint (From Add Places)	The function name is SHAREPOINT **Example (msi):** **msiexec.exe /i "Mindjet Admin.msi" SHAREPOINT=0 /qn**

Configuring Functions from the Registry

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The application supports configuring specific functionality in the registry before installing the application. The installer reads these keys and retains these settings. After installation is complete, you can hand-configure these settings as well. To disable a function, set the registry value to “0.” Reset the value to “1” to re-enable the function. Each key is of the type **REG_**DWORD except the License key.

Table 11: Configuring Functions from the Registry

FUNCTIONS	EXAMPLES
Macro Support	The registry key is MacroUiEnabled. Example: **HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Settings "MacroUiEnabled" (0)**
Internet Access	The registry key is InternetConnectionEnabled. Example: **HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Settings "InternetConnectionEnabled" (0)**
Online Help	The registry key is OnlineHelpEnabled. Example: **HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Settings "OnlineHelpEnabled" (1)**
UI Customization	The registry key is EnableUserCustomization. Example: **HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Settings "EnableUserCustomization" (1)**
Mindjet Files Access	The registry key is Connect3Enabled. Example: **HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Settings "Connect3Enabled" (1)** **Note**: Mindjet Files is turned off by default in version 17.1, and this key must be entered manually.
Disable Attachments	The registry key is DisableAttachments. Example: **HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Settings "DisableAttachments" (1)**
Effort	The registry key is ShowEffort. Example: **HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Settings\ShowEffort** **Note**: Set dword to either 0 or 1 during an LSD (or setup.exe) installation.

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FUNCTIONS	EXAMPLES
License Key	The registry key is License Key. Example: **HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Registration** **Note**: Use .reg script to set the key via ISX_SERIALNUM deployment. If no license key is specified in the package, MindManager will be installed as a Read-only Viewer.
Online Files	The registry key is Connect3ApiEnabled Example: **HKEY_CURRENT_USER\Software\Mindjet\MindManager\17\Settings\Connect3ApiEnabled** **HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Mindjet\MindManager\17\Settings\Connect3ApiEnabled** Note: Adds '**Let add-ins use online features**' checkbox to **Add-Ins** tab of **Options** dialog.

Deploying User Data and the Library

As discussed previously in *Deploying User Data and the Library to a Server* (page 23), you may want to deploy user data and the library to a server. If you want to deploy the user data and library on separate servers, you must do so from the command line or by editing the registry.

Deploying User Data and the Library from the Command Line

The following commands give you the ability to deploy user data and the Library to separate locations. Each option consists of a property, which (when given a command line value) writes to the registry. You can also predefine these options by creating and executing a registry script before a silent setup.

Table 12: User Data Deployment Options

COMMAND	RESULTING REGISTRY ENTRY
USERDATAPATH="<user specified path>"	**HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Installer "LSDUserDataPath" "<user specified path>"**
USERDATAPERUSERPATH="1"	Deploy user data in a per-user folder. 1=Enable 0=Default or disable **HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Installer "LSDUserDataPerUser" (1)**

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COMMAND	RESULTING REGISTRY ENTRY
USERDATAPATHSUFFIX= "<user specified path>"	This folder is appended to the per-user folder. `HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Installer "LSDUserDataPathSuffix" "<user specified directory>"`

Example:

```
msiexec /i "Mindjet Admin.msi" USERDATAPATH="C:\Temp\UserData"
USERDATAPERUSERPATH="1" USERDATAPATHSUFFIX="MyUserData"
```

Table 13: Library Deployment Options

COMMAND	RESULTING REGISTRY ENTRY
LIBRARIESPATH="<user specified path>"	`HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Installer "LSDLibraryPath" "<user specified path>"`
LIBRARIESPERUSERPATH="1"	Deploy libraries in a per-user folder. 1=Enable 0=Disable `HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Installer "LSDLibraryPerUser" (1)`
LIBRARIESPATHSUFFIX= "<user specified directory>"	This folder is appended to the per-user folder. `HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Installer "LSDLibraryPathSuffix" "<user specified directory>"`
LIBRARIESEXTRACT="1"	Extract libraries to path the first time the application starts. 1=Enable 0=Disable `HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Installer "LSDLibraryExtract" (1)`

Example:

```
msiexec /i "Mindjet Admin.msi" LIBRARIESPATH ="C:\Temp\Libraries"
LIBRARIESPERUSERPATH ="1" LIBRARIESPATHSUFFIX ="MyLibraries"
LIBRARIESEXTRACT="1"
```

Deploying User Data from the Registry

During a silent (non-interactive) installation, you can deploy data user files by setting some registry values on the user's system in the registry key before running the installer:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Installer
```

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Table 14: User Data Registry Key Values

REGISTRY VALUE	DATA VALUE
LSDUserDataPath	Examples: **N:\User Data\All Users\Mindjet\MindManager** *or* **N:\User Data (if LSDUserDataPerUser is set to 1)**
LSDUserDataPerUser	0 = Do not use separate folders per user 1 = Do use separate folders per user
LSDUserDataPathSuffix	See above Example: **Mindjet\MindManager\17** Only applies if LSDUserDataPerUser is set to 1

If you want to deploy all of the user data (including the library) on a server, create a registry file named "MindManager Large-Scale Deployment Options.reg" like this:

```
REGEDIT4
[HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet]
[HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager]
[HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17]
[HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Installer]
"LSDUserDataPath"="N:\\User Data\\All Users\\Mindjet\\MindManager 17"
"LSDUserDataPerUser"=dword:00000001
"LSDUserDataPathSuffix"="User Data"
"LSDLibraryPath= N:\\All Users\\Mindjet\\MindManager 17"
"LSDLibraryPerUser"=dword:00000001
"LSDLibraryPathSuffix"="Library"
"LSDLibraryExtract"=dword:0000001
```

Sample Setup Commands

The following sections provide sample commands to demonstrate various installation scenarios.

Simple Installation

This command simply runs the installer in the usual interactive mode.

```
Msiexec.exe /i "Mindjet Admin.msi"
```

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You can also run **MindManagerAdmin.msi** from Windows Explorer.

Silent Installation

This command silently runs the installer, supplying values for all required parameters.

```
Msiexec.exe /i "MindManagerAdmin.msi" /qn INSTALLDIR="C:\Program
Files\Mindjet\MindManager 17\" ISX_SERIALNUM="MPxM-MM1-xxxx-xxxx-xxxx"
```

Note that the **"xxxx-xxx-xxxx-xxxx-xxxx"** portion of the license key must be replaced with a valid key. Optional parameters are USERNAME and COMPANYNAME. If no license key is specified in the package, MindManager will be installed as a Read-only Viewer.

Sample Customized Installation Using ADDLOCAL and REMOVE

Here is an example for a customized silent install, using ADDLOCAL and REMOVE:

```
Msiexec.exe /i "Mindjet Admin.msi" /qn /L*v "C:\MM17AdminSetup.log"
INSTALLDIR="D:\Program Files\Mindjet\MindManager 17\"
ISX_SERIALNUM="MPxM-MM1-xxxx-xxxx-xxxx" USERNAME="John Doe"
COMPANYNAME="Acme, Inc." ADDLOCAL="ALL" REMOVE="MmHtmlViewer,
`ONLINEHELP="0"
```

Silent install options for the MmHtmlViewer key that supports the HTML 5 Viewer Export feature are available and supported using Admin .MSI package.

To **remove** the feature:

```
msiexec /i PATH_TO.msi ADDLOCAL="ALL" REMOVE="MmHtmlViewer" /qn\
```

To **re-instate** the feature:

```
msiexec /i PATH_TO.msi ADDLOCAL="MmHtmlViewer" /qn
```

Uninstallation

This command uninstalls the application:

```
Msiexec.exe /x "MindManagerAdmin.msi"
```

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DEPLOYING WITH ACTIVE DIRECTORY

Deploying via Active Directory and Group policies is has limited supported at this time because:

- The setup only supports computer-based software installation
- Some properties can only be configured from the command line

You can use configuration tools such as Orca to:

- Configure properties from the property table
- Save the settings to a transform file (MST)
- Deploy it with the updated values

Here is a list of properties you can modify in the Property Table:

Table 15: Properties Editable in Properties Table

PROPERTY	DESCRIPTION/DEFAULT SETTING
INTERNETACCESS=1/0	▪ Allow internet access ▪ Default=1
RESOURCELANGUAGE	Specifies the language of MindManager. Language values include: “English”, “German”,“French” and “Russian”.
ISX_SERIALNUM	Specifies a license key to activate the product. Add to the properties table in the .mst file with the license key as the value.
LIBRARIESPATH=<defaultpath>	User can override default path.
LIBRARIESPATHSUFFIX=<defaultpath>	User can override default path.
LIBRARIESPERUSERPATH=0/1	▪ Deploy libraries per user ▪ Default=0
LIBRARIESEXTRACT=1/0	▪ Extracts libraries at first launch ▪ Default=1
USERDATAPATH=<defaultpath>	User can override default path.
USERDATAPATHSUFFIX=<defaultpath>	User can override default path.
USERDATAPERUSERPATH=0/1	▪ User Data deployed per user ▪ Default=1
MACROUI=1/0	▪ Enable Macros in UI

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PROPERTY	DESCRIPTION/DEFAULT SETTING
	▪ Default=1
ONLINEHELP=1/0	▪ Enable online help ▪ Default=1
REBOOTISREQUIRED=No/Yes	▪ Require reboot after installation ▪ Default=No
TOPICALERTSLINKER=1/0	▪ Enable topic alerts linker ▪ Default=1
UICUSTOMIZATION=1/0 (default=1)	▪ Enable UI customization ▪ Default=1
SHORTCUTDESKTOP=1/0 (default=1)	▪ Create Desktop shortcut ▪ Default=1
SHORTCUTQUICKLAUNCH=1/0	▪ Create QuickLaunch shortcut ▪ Default=1
SHORTCUTSTARTMENU=1/0 (default=1)	▪ Create StartMenu shortcut ▪ Default=1

Recommendations include

- Saving these settings to the transform file as a backup, rather than directly to the MSI
- Deploying on a per-machine basis only, avoiding the possibility that the machines with multiple users get multiple copies of the application installed
- Creating a policy for “Always install elevated,” otherwise the installation may fail

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DEPLOYING WITH WINDOWS SERVER

You can install with Windows Server 2003 running Terminal Services, and then deploy it to variety of client machines.

To install on a Windows Server 2003 running Windows Terminal Services (WTS):

1. Log on to the Windows Terminal Server as an administrator.
2. Launch **`PATH_TO.msi.`**
3. We recommend using the Add/Remove Programs applet in the Windows Control Panel.
4. Avoid running the installer directly from Windows Explorer unless you are familiar with using the “change user /install” and “change user /execute” commands.
5. Select Add New Programs and then select CD.

   The automatic procedure does not find the setup program.
6. For the Run Installation Program dialog, click Browse.

In the Browse dialog:

7. Change Files of type to Programs.
8. Navigate to the installer location.
9. Select **`PATH_TO.msi`**.
10. Click **Open** and then **Next** to start the installer.
11. In the Customer Information dialog, leave the User Name blank or chose a “generic” name.

The user can customize this by entering an Organization name and the License Key.

12. In the Setup Type dialog, choose Complete or Custom as desired.

For details about customization, see *Deploying with the Installation Wizard* (page 21)**.**

13. Complete the installation as outlined in *Completing the Installation* (page 25).
14. Please make sure to finish the Admin Install wizard of the Windows Terminal Server by clicking the Finish or Cancel button.



Note: DO NOT START THE APPLICATION BEFORE THIS DIALOG IS FINISHED!

You can now run on the server with the Windows Remote Desktop Connection client.

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The application runs in full color mode and does not support 256-color mode. For best results, run the terminal server clients in full color mode as well. Deploying under Windows 2000 server will function, but with less than optimal results.

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DEPLOYING WITH CITRIX XENAPP

A sophisticated terminal server environment built on top of the Windows Terminal Services provided by Windows Server, the Citrix XenApp is currently the only tested and supported Citrix platform, though other combinations may also behave properly.

Basic Installation for the Citrix Desktop

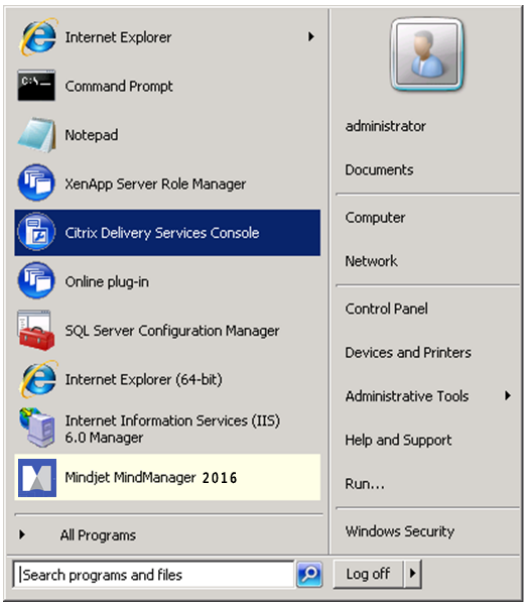
For better Citrix performance, do not install the application on a C: drive. After installation, MindManager appears as part of the Citrix Desktop—a single window containing icons for all the published applications.

Advanced Installation of a "Seamless" Window

You can also install to Citrix as a seamless individual application window, instead of installing as part of the Citrix desktop, as described above.

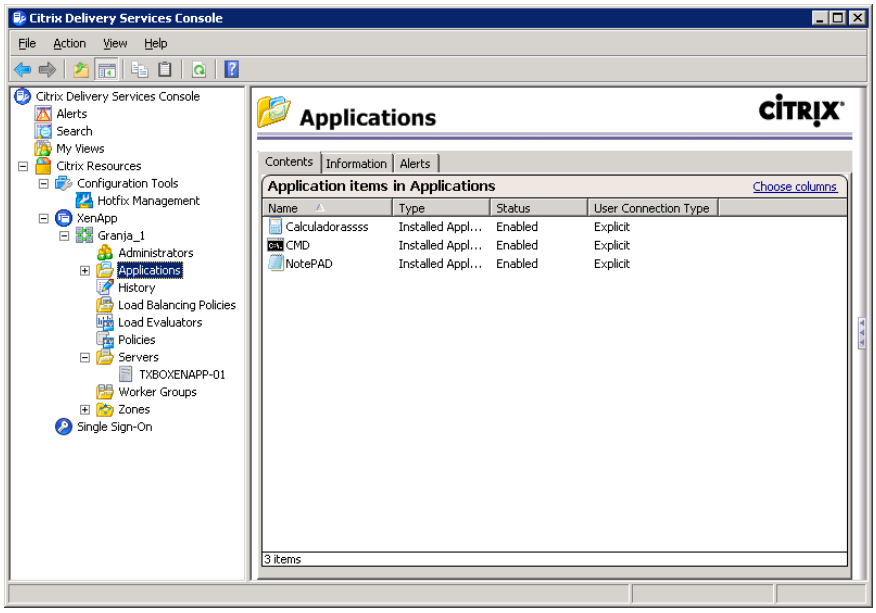
To install as a seamless individual application window:

1. Install on a Windows Server 2003 or Windows Server running Windows Terminal Services (WTS)
2. Log on to the server (2003 or 2008).
3. Start the Citrix Delivery Services Console.

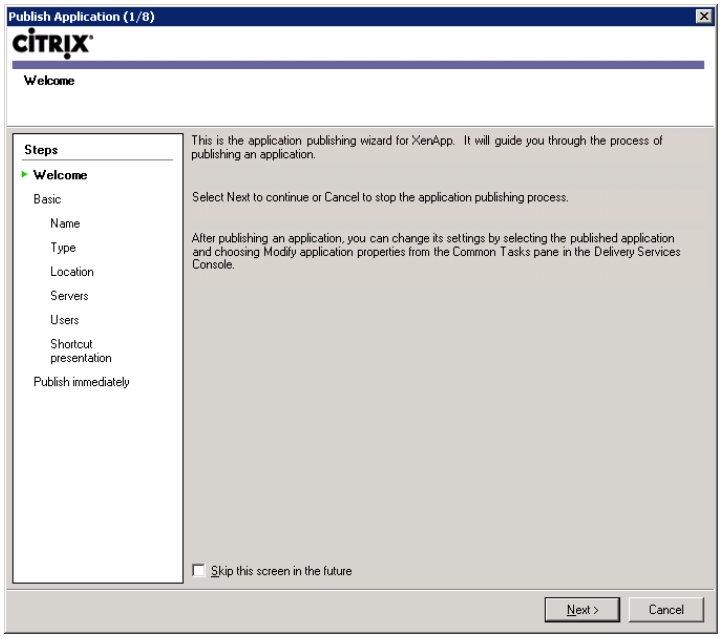


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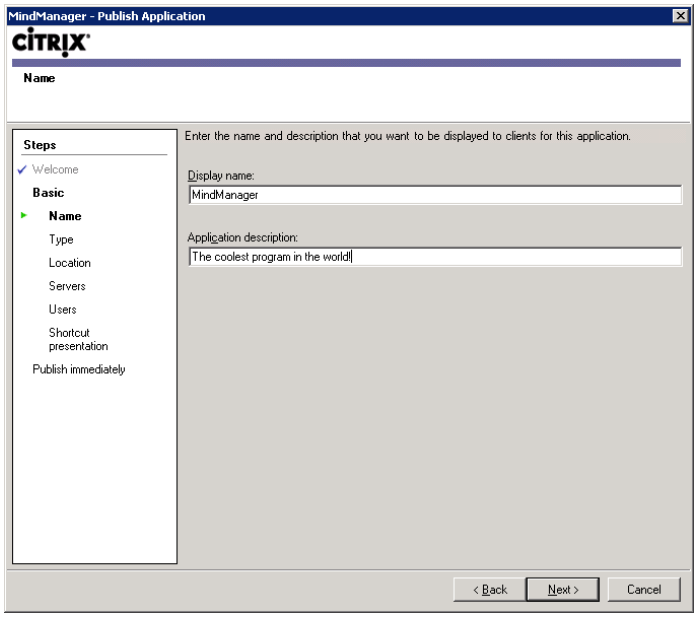
4. In the tree, select **Applications**.



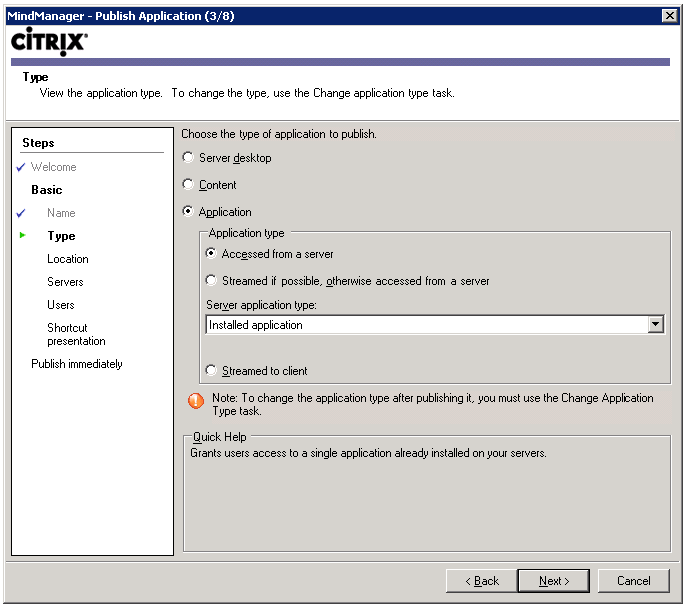
5. Right-click Applications.
6. Select **Publish Applications**. (The Application Publishing Wizard appears).



7. Click Next, in Basic, establish a name for the application.

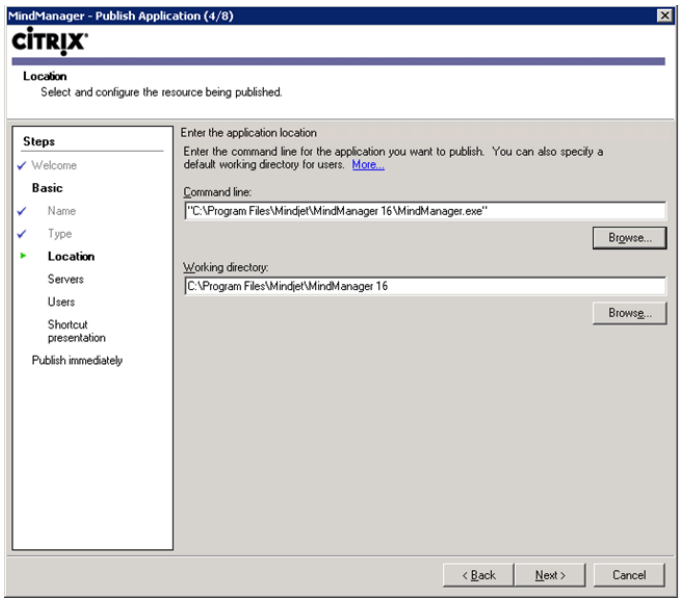


8. Specify the type of application to publish...

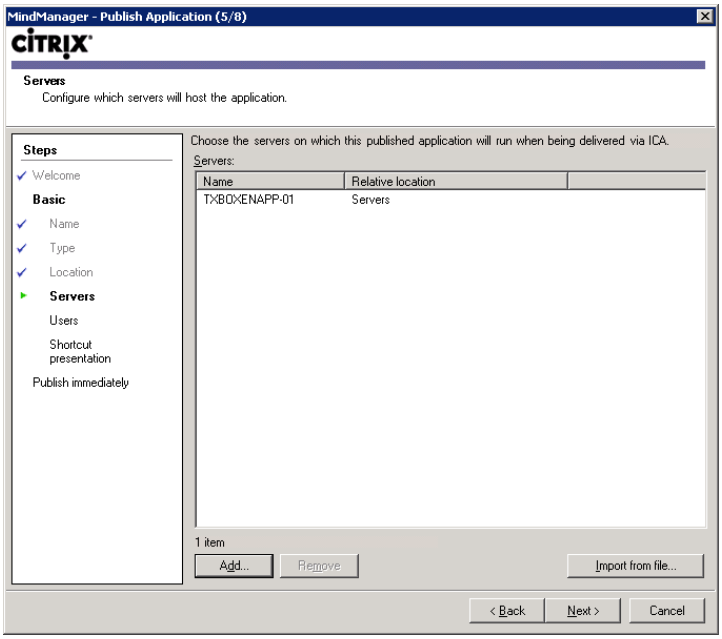


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9. ...and the application's location.

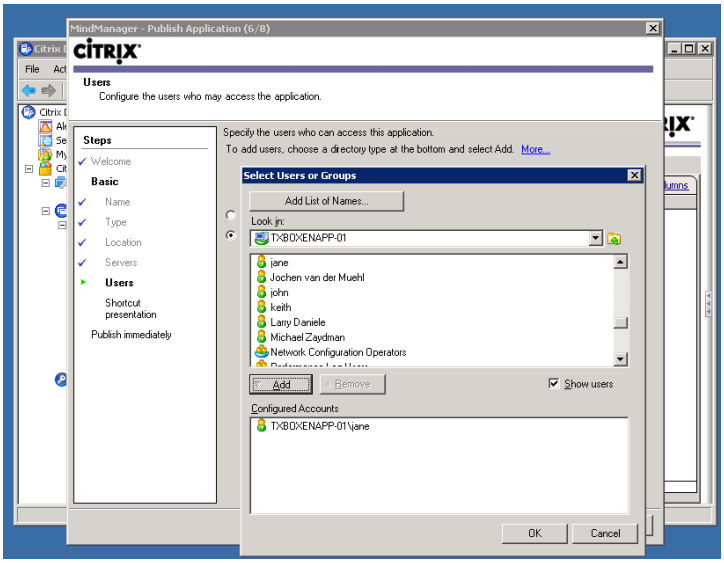


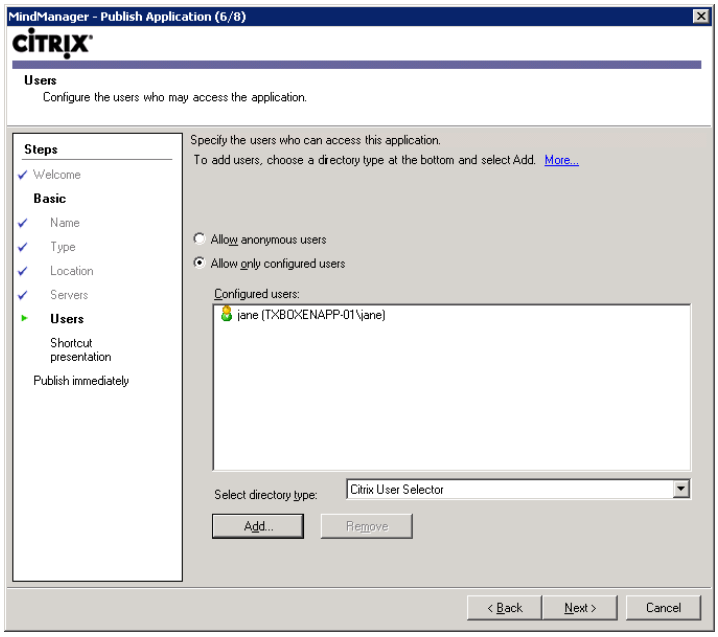
10. Specify which servers will host the application ...



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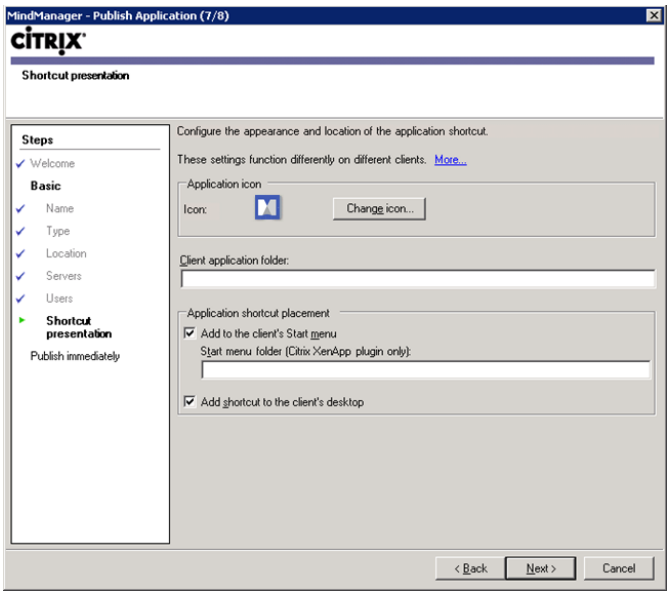
11. ...and which users will have access to the application. (We recommend doing this by group, to ease the load of adding single users.)



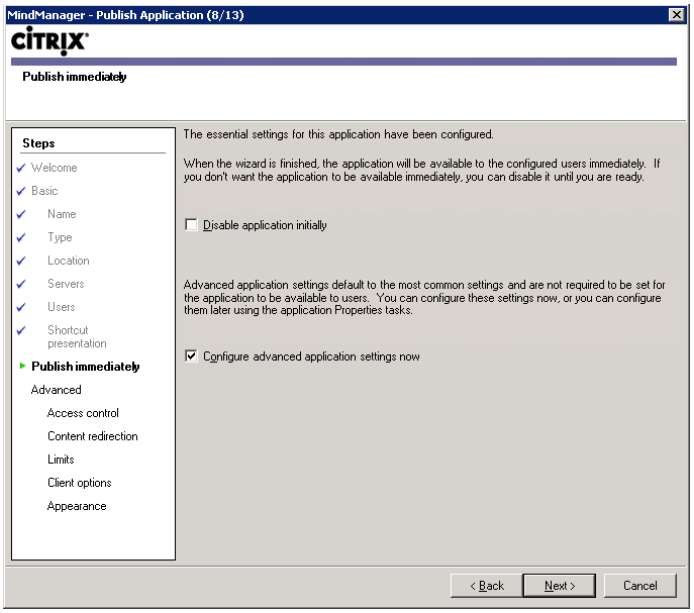


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12. Configure the Application's appearance and shortcut location options.

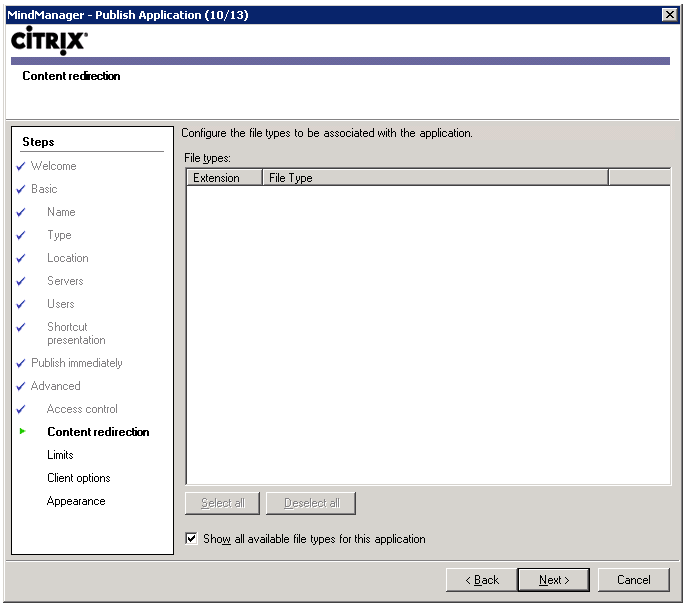


13. One you have established the Basic Settings, you can choose between publishing immediately or inputting any desired Advanced Settings, including:

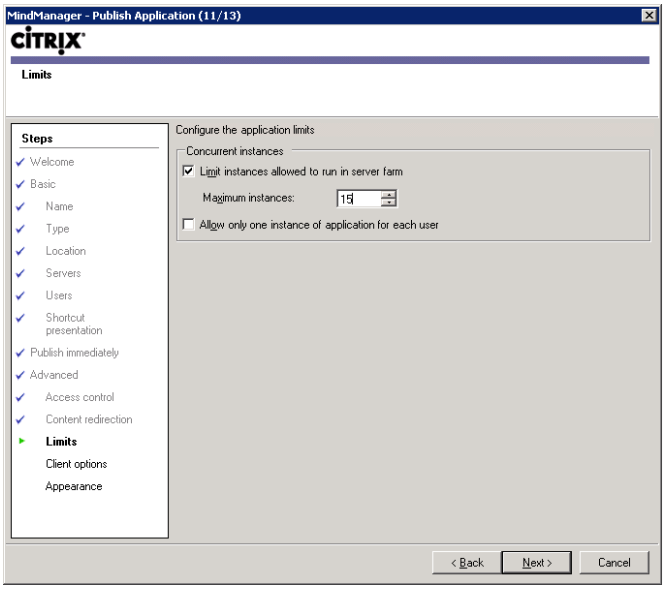


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Content Redirection

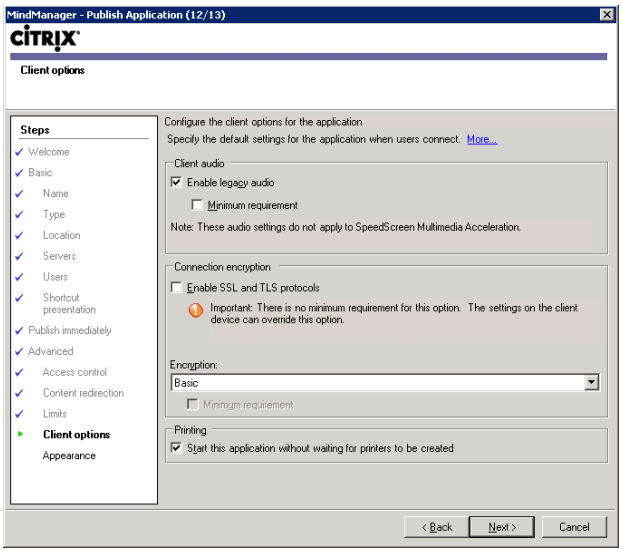


Limits

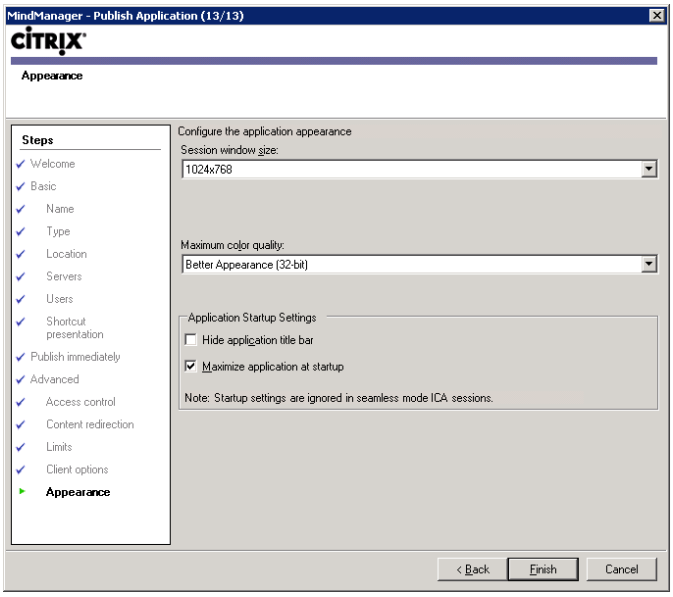


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Client options

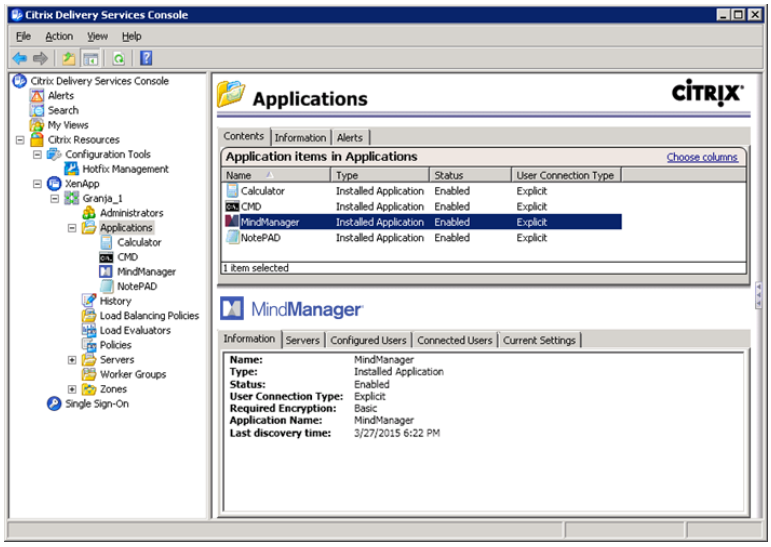


Appearance

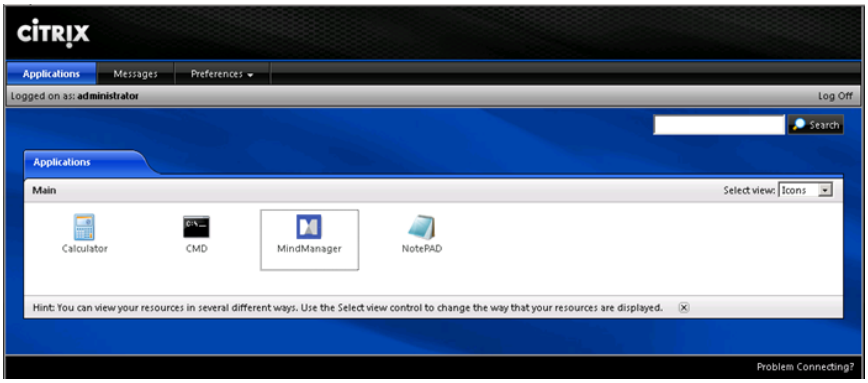


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Once you have completed the installation, you should see the MindManager in the Applications section:



The application icon now appears in XenApp Client applications



For more configuration options, please consult your Citrix documentation.

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ADMINISTERING MINDMANAGER

There are other administrative issues involved in deploying on a large scale. You can address many of them using the administrative tools and methods described below.

Disabling Zapier

To set this HKLM registry entry to 0 use the following command:

```
msiexec /i "Mindjet MindManager 2017 Admin.msi" ZAPIERENABLED="0" /qn+
```

The above example creates:

```
HKLM\SOFTWARE\Mindjet\MindManager\17\Settings\ZapierEnabled
```

with a value of 0 (disabled), otherwise this key is not created by the installer at all.

Note: When a 32bit installer is run on a 64bit OS, there is a Wow6432Node component added to the above registry entry. In this case, the HKEY looks like this:

```
HKLM\SOFTWARE\Wow6432Node\Mindjet\MindManager\17\Settings\ZapierEnabled
```

Managing Add-Ins

The application uses a number of add-in DLLs. The Add-Ins are automatically registered when the application is installed. On startup, the Add-Ins check for any other required resources (e.g. the supported version(s) of Microsoft Word). They enable or disable themselves as appropriate. If an add-in fails to start, it is automatically removed from the list of add-ins (but not from the disk).

Registering or Unregistering Add-Ins from the Command Line

To unregister the Word add-in:

1. Select Start>Run.
2. Enter the command:

   ```
   regsvr32 /u "C:\Program Files\Mindjet\MindManager 17\Mm10Word.dll"
   ```
3. To restore an unregistered add-in, for example the Word Add-in,
4. Select Start>Run.
5. Enter the command:

   ```
   regsvr32 "C:\Program Files\Mindjet\MindManager 17\Mm10Word.dll"
   ```

Managing Add-Ins from the Registry

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Users can enable and disable Add-ins via the Tools > Add-Ins command. However, if desired it is possible to disable or remove individual add-ins via the Windows Registry.

The Registry Add-In List

The list of add-ins that load at startup can be found in the Registry at:

HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\AddIns

Removing or Restoring Add-Ins from the Registry

To remove an add-in (i.e. make it “invisible” to the application), delete its registry subkey.

To remove the Word add-in, delete the following key:

HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\AddIns\Mindjet.Mm17Word.AddIn.x

This makes the add-in “invisible” to the application so it will not be loaded on program startup and will not be seen in the list of add-ins in the **Tools -> Add-Ins** dialog. However, the add-in DLL files still exist on the hard drive.

Another way to remove an add-in is to unregister it as described in *Registering or Unregistering Add-Ins from the Command Line* (page 51). We do not recommend deleting the add-ins DLLs since they will be restored automatically the next time the program is run via its shortcut.

Enabling or Disabling Add-Ins from the Registry

Users can disable or enable a given add-in directly via the **Tools -> Add-Ins** command. Add-ins can also be disabled via the Windows Registry as described below.

There are two keys to consider when disabling an add-in for a given user:

HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\AddIns\AddInName

HKEY_CURRENT_USER\Software\Mindjet\MindManager\17\AddIns\AddInName

Where **AddInName** is the actual name of the add-in (e.g. **Mindjet.Mm17Word.AddIn.x**).

When a given user starts the application, the program checks first in the **HKEY_CURRENT_USER** subkey for a “LoadBehavior” value. If it exists, it is used.

If the “LoadBehavior” value does not exist, the application copies the LoadBehavior value from the **HKEY_LOCAL_MACHINE subkey** to the **HKEY_CURRENT_USER** subkey and then uses that value.

Therefore, to disable an add-in for the current user, set the LoadBehavior value in the **HKEY_CURRENT_USER** subkey to 0.

To disable the add-in for all new users, set the LoadBehavior value in the **HKEY_LOCAL_MACHINE** subkey to 0.

Note: This has no effect on users that have already run the application at least once. For them you must set LoadBehavior in the **HKEY_CURRENT_USER** subkey.

Similarly, setting LoadBehavior to 2 enables the add-in again.

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Managing Microsoft Office Add-Ins

When the application is installed, it registers add-ins for MS Office products. The location of this add-in registration in the Windows Registry depends on the application and the add-in.

For example, the add-in for Microsoft Word is registered on a per-machine basis (so all users of the machine have it) at:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Office\Word\Addins\Mindjet.Mm17Word.AddIn.x
```

Note that Word handles the `Tools -> "COM Add-Ins"` command and user interface differently than MindManager.

- In Word, if an add-in is registered in HKEY_LOCAL_MACHINE (HKLM), then it is not displayed in the COM Add-Ins dialog.
- If an add-in is registered in HKEY_CURRENT_USER (HKCU), it is displayed in the dialog and can be turned off and on.
- If the add-in is registered both in HKLM and HKCU, Word ignores the HKCU entry and just uses the HKLM entry.

The registry data values for the Microsoft program add-ins are the same as described for the add-ins, and can be edited in a similar fashion.

Managing from the Registry

To allow system administrators to control the environment presented to their users, the application supports registry settings, which can be set via the user interface. However, registry settings relevant to Large-Scale Deployment are *not* available from this user interface. See also the user data installation options on page 9, which are similarly adjusted via registry settings.

HKEY_LOCAL_MACHINE Settings

The following registry settings are used on a per-machine basis:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Registration
```

Table 16: HKEY_LOCAL_MACHINE Registration Values

VALUE NAME	TYPE	VALUE DATA
ShowLicense	REG_DWORD	0 to not show the license key being used or allow it to be changed. 1 to show the license key
ChangeLicense	REG_DWORD	0 to prevent changing the license key. 1 to allow the license key to be changed.

The following registry settings are used on a per-machine basis:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Settings
```

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Table 17: HKEY_LOCAL_MACHINE Settings

VALUE NAME	TYPE	VALUE DATA

LocalUserDataDirectory	REG_SZ	Path to copy user data files (e.g. Image Library files, etc.) at first launch. May contain environment variables.
		For example:
		`N:\UserData\%USERNAME%\MindManager 17`
		If no path is specified, then this path is assumed:
		`%USERPROFILE%\Local Settings\ Application Data\MindManager\17`
		This setting can be overridden by the same setting in HKEY_CURRENT_USER (see below) or by the LSDUserDataPath setting described earlier.

PerUserInstallation	REG_DWORD	0 for per-machine license key management. 1 for per-user license key management.

HKEY_CURRENT_USER Settings

The following registry settings are used on a per-user basis:

`HKEY_CURRENT_USER\Software\Mindjet\MindManager\17\Settings`

Table 18: HKEY_CURRENT_USER Settings

VALUE NAME	TYPE	VALUE DATA
AllowUpdateCheck	REG_DWORD	0 to hide the Help, Check for Updates command. 1 to show this command. 2 to show this command only if the user has write privileges to HKEY_LOCAL_MACHINE (default)
DisableAnimation	REG_DWORD	0 to allow animation of maps for smoother scrolling. 1 to disable animation of maps for one-jump scrolling, which is less graphics intensive and perhaps more desirable in a low-bandwidth Windows Terminal Server environment.
LocalUserDataDirectory	REG_SZ	Path to copy user data files (e.g. Image Library files, etc.) to when a new user first launches. May contain environment variables. For example:

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VALUE NAME	TYPE	VALUE DATA
		N:\UserData\%USERNAME%\MindManager 17 If no path is specified, then this path is assumed: **%USERPROFILE%\Local Settings\Application Data\MindManager\17** This setting can be overridden by the LSDUserDataPath setting described earlier.

Managing with Event Macros

The application can trigger certain Event Macros that can help system administrators monitor the usage of the program more carefully.

- These macros are examples only. You need to customize them for your environment.
- Microsoft added the Outlook Object Model Guard starting with Outlook version 2002, forcing the display of an alert message informing the user that a program is trying to access or send a message via Outlook, which the user must approve before proceeding. This behavior can be controlled by Outlook system policies.

Table 19: Event Macros

EVENT NAME	WHEN FIRED
OnApplicationStarted	At the end of InitInstance (only when started in “normal” mode, not /RegServer, /UnregServer, etc.)
OnExpiredTrialStarted	Just before the “Trial Expired” dialog
OnFirstUse	Just before installation of “per-user data”
OnBuyButtonPressed	Just before the “Buy MindManager” dialog is displayed

When a macro event is fired, 0 or more macros are run. The mapping of macro event names to macro filenames is determined on startup.

On startup, the application looks in the registry at **HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17**for a key named Event Macros. If it is found, expect to find keys such as these:

```
Event Macros\
     OnApplicationStarted\
         EventMacro_OnApplicationStarted.mmbas
         EventMacro_OnApplicationStartedTwo.mmbas


Path="C:\Temp\EventMacro_OnApplicationStartedTwo.mmbas"
```

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```
OnBuyButtonPressed\
    EventMacro_OnBuyButtonPressed.mmbas
OnExpiredTrialStarted\
    EventMacro_OnExpiredTrialStarted.mmbas
OnFirstUse\
    EventMacro_OnFirstUse.mmbas
```

Each event key can have 0 or more macro key names. Each macro key can have an optional “Path” value.

- If the “Path” value is not there, then the key name is the path.
- If the path is a relative path (e.g. **"EventMacro_OnApplicationStarted.mmbas"**), it is converted to an absolute path relative to the default macro folder for the user (e.g. **"C:\Documents and Settings\username\Local Settings\Application Data\Mindjet\MindManager\17\macros"**).

If the “Event Macros” key is not in the registry, then the application looks for event macros in the default macro folder (see above) with a name of the form:

```
EventMacro_<EventName>.mmbas
```

For example:

```
EventMacro_OnApplicationStarted.mmbas
```

Therefore, it is possible to get macro events to run a macro simply by putting macros with the proper name in the user's macro folder. However, for most typical IT uses, the “Event Macros” key will be used, since this can point to macros on a network drive, for example.

For example, this **"EventMacro_OnApplicationStarted.mmbas"** macro uses the Outlook object model to send a notification email:

```
'#Uses "EventMacro_Utilities.mmbas"
Sub Main
      SendNotificationEmail "MindManager event: Application Started"
End Sub
```

Where the “EventMacro_Utilities.mmbas” file contains:

```
' Utilities for use with MindManager event macros
Public Sub SendNotificationEmail(eventString As String)
      ' Sends the subject string to the appropriate IT person
      ' to notify them of the MindManager event that just occurred

      ' Get access to our email program
      Dim outlookApp As Outlook.Application
      Set outlookApp = New Outlook.Application
      ' Create a message
      Dim message As Outlook.MailItem
```

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```
        Set message = outlookApp.CreateItem(olMailItem)
        message.To = "System Administrator"
        message.Subject = eventString
        message.Body = eventString

        ' Send the message
        message.Send
End Sub
```

Managing User Licenses

Each user must have a license. Please contact your reseller or Mindjet sales representative for licensing terms appropriate for Large-Scale Deployment. MindManager does not include any special support for proprietary third-party license management software.

MindManager can check and administer license keys on a per-user or per-machine basis. The application first looks for a license key in:

HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Registration

The default installation administers license keys on a per-machine basis. A license key can be entered after the program is installed, and all users of that machine have access to the program via that key.

To achieve per-user license key administration:

1. Install with no license key: use the installation wizard (which does not ask for a key), or use command-line installation without specifying a license key.

   Or, set the registry key: **HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Settings\PerUserInstallation** to 1 after installation. This setting instructs the application to save any license key the user enters to the HKCU setting instead of the HKLM setting.

2. The administrator should put the user's license key in the user's HKCU registry setting (above)—or provide the user with the license key so s/he can enter it in the license key dialog that is automatically displayed upon launching in Trial mode.

Policies Support

The application does not offer official Windows Policies support.

MindManager Linker for SharePoint

Note: To use MindManager with Microsoft SharePoint, you must purchase and install MindManager Enterprise, which includes MindManager Linker for SharePoint.

MindManager Linker for SharePoint supports an optional silent argument for deploying a SharePoint SITECONNECTIONFILE as a way to pre-populate custom SharePoint connections.

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Optional silent install argument:

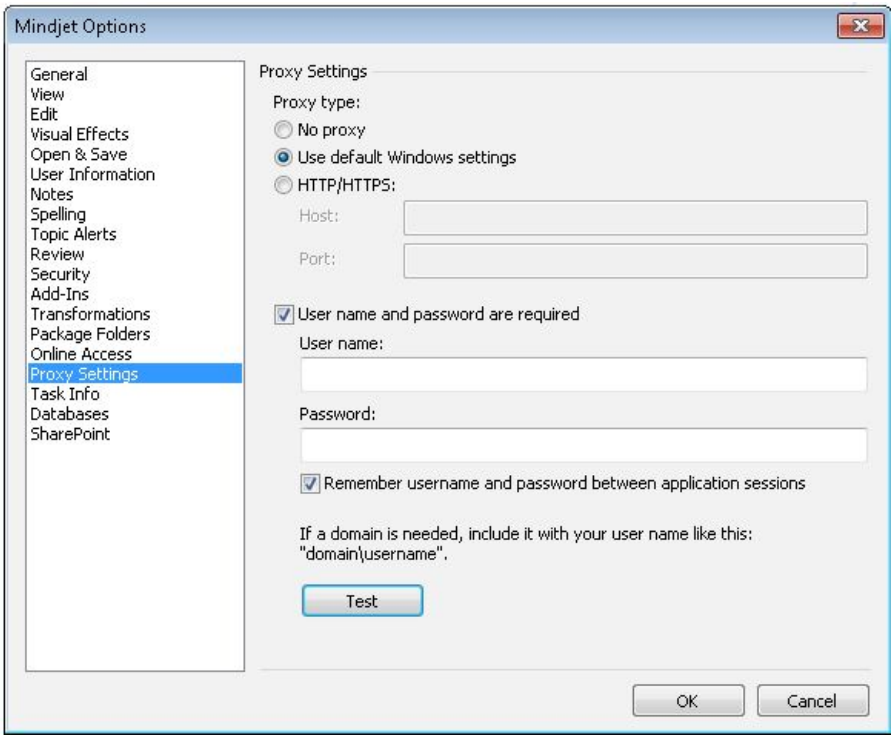
```
SITECONNECTIONFILE=full_path_to_custom_site_connection_file
```

This file can have any name but must be reachable from install-to machine. The file is copied to "**`SiteConnections.xml`**" in the SharePoint Linker INSTALLDIR.

Note: This argument will have no operational effect when the application runs if the SharePoint Add-In is not active.

Proxy Server Support

The application supports proxy server connections to the internet, including overriding default Microsoft Internet Explorer settings.



Primary path:

1. Select Proxy Settings from MindManager→File→Options.
2. Choose Auto-detect/Use system proxy settings (e.g. set by system or w/in IE) or Manual proxy configuration (no proxy, https).
3. Set proxy settings for manual proxy configuration.

Alternate path:

1. System administrator sets proxy settings (Host & Port) for Large-Scale Deployment.

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2. When installed, MindManager options are configured based upon on System Administrator user's configuration.
3. System Administrator has an option to hide the ability to remember Username and Password for the HTTPS proxy settings.

Impacted areas:

* Online (Files) -, Sign in/out, and Tasks.

* Notifications; Creating/deleting files; folders, Co-editing and Sharing.

* Trial display messages emanating from Mindjet servers.

* Tasks

* Connection – sign in/sign out

* Check for updates

* All the web services Map Parts

* SharePoint Add-in

* Database linker

* *To use MindManager with Microsoft SharePoint, you must purchase and install MindManager Enterprise.*

The registry settings are as follows:

HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Settings\ProxyType = 0 (no proxy) - DWORD type

1 = Use default windows settings

2 = Use custom proxy settings

In case your proxy type is set to custom, you can set a custom proxy as follows:

HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Settings\ProxyHost = host name - STRING

HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Settings\ProxyPort = port name - DWORD

HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Settings\ProxyAuthenticationRequired - DWORD (can be 0 or 1)

HKEY_LOCAL_MACHINE\SOFTWARE\Mindjet\MindManager\17\Settings\ProxySaveCredentials - DWORD (can be 0 or 1) - is used to save proxy credentials across application sessions

Enabling or Disabling “Treat UNC Paths as SharePoint Servers”

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When enabled, **`Treat UNC Paths as SharePoint Servers`** checks to a map is being opened from a SharePoint server; if so, MindManager offers options for document check-out and check-in in the files > Info menu. This feature can cause a slight delay on opening documents, so it is disabled by default. Administrators can enable it via the registry or from the command line; users can enable it using MindManager's Options.

To enable from the command line

COMMAND	ACTION
`ENABLEUNCPATH_CU="0"`	Disable for the Current User running the installation
`ENABLEUNCPATH_CU="1"`	Enable for the Current User running the installation
`ENABLEUNCPATH_LM="0"`	Disable for Local Machine
`ENABLEUNCPATH_LM="1"`	Enable for Local Machine

To enable from via the registry

Table 20: HKEY_CURRENT_USER Settings

VALUE NAME	TYPE	VALUE DATA
EnableUncPathDmsSupport	REG_DWORD	0 to disable 1 to enable

Table 21: HKEY_LOCAL_MACHINE Registration Values

VALUE NAME	TYPE	VALUE DATA
EnableUncPathDmsSupport	REG_DWORD	0 to disable 1 to enable

To enable from MindManager

In the File tab, under Options > Open & Save, click the box next to Treat UNC paths as SharePoint Servers.

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