New Features and Enhancements in M-Files 10.1 and 10.2
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12. LANGUAGE VERSIONS OF M-FILES SOFTWARE
1. **Major new features and enhancements**

M-Files enterprise information management solutions (EIM) improve and simplify how businesses manage documents and other information in order to become more productive, more efficient and stay compliant. M-Files eliminates information silos and provides quick and easy access to the right content from any core business system and device. M-Files achieves higher levels of user adoption resulting in faster ROI with a uniquely intuitive approach based on managing information by “what” it is versus “where” it’s stored. With flexible on-premise, cloud and hybrid deployment options, M-Files reduces demands on IT by enabling those closest to the business need to access and control content based on their requirements.

Thousands of organizations in over 100 countries use M-Files as a single platform for managing their critical business information, including companies such as SAS, Elekta and EADS. M-Files 10.1 and 10.2 offer a variety of new features and enhancements to increase performance, reliability, productivity and efficiency, including:

- A new and more intuitive user interface in M-Files Web Access
- Numerous updates to M-Files mobile apps
- Support for annotation and redlining of documents
- Support for pre-shared key authentication
- Support for encrypted RPC connections
- Support for SQL Server AlwaysOn availability groups
- Better support for Citrix XenApp
- Major improvements in M-Files UI Extensibility Framework
Contact us

Please contact an M-Files Partner or our sales team for a custom online or on-site presentation of M-Files tailored for your business needs! Email us at sales@m-files.com. For technical support, please send requests to support@m-files.com or visit http://support.m-files.com.

Trial version

Try M-Files for free! Visit www.m-files.com/try for a free 30-day trial.

Thank you for your interest and support! If you have already chosen M-Files, or if you’re still considering it, we’re confident that you will be delighted with the impact M-Files will have on your business and look forward to working with you in the future. Please do not hesitate to contact us with any questions. To learn more, visit the M-Files web site at www.m-files.com.
2. System requirements and upgrading to 10.x

2.1 System requirements for M-Files 10.x

M-Files is compatible with both 32-bit and 64-bit Microsoft Windows operating systems. Please note that the 32-bit and 64-bit versions have separate installation programs.

M-Files 10.x can be installed on computers running on one of the following operating systems:

<table>
<thead>
<tr>
<th>Windows 8 and 8.1</th>
<th>Windows Server 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows 7</td>
<td>Windows Server 2008 R2</td>
</tr>
<tr>
<td>Windows Vista</td>
<td>Windows Server 2008</td>
</tr>
</tbody>
</table>

M-Files supports both the Workstation and Server versions of the operating system.

**Note:** M-Files 10.x Windows client only works on Windows versions 8.1, 8, 7 and Vista. Windows XP users can use M-Files 10.x Server with 9.0 Client.

**Note:** M-Files Server can also be installed on Windows Server 2003 Service Pack 2 or later.

**Note:** Ensure that the target computer has at least 200 MB of free space for the M-Files Client installation. Ensure that the target computer also has at least 1 GB of free space for the M-Files Server installation. The space required by the document vault depends on the number and size of the documents and other objects to be managed.

Mac and Linux users can access M-Files via popular web browsers using M-Files Web Access.

For more information on technical specifications, please refer to M-Files Technical Data Sheet.

2.2 How to upgrade M-Files

M-Files customers with an active Upgrades and Support Subscription have the right to update the M-Files software at no charge. If you need support for the installation or update, or if you want to gain as much benefit as possible from the features in M-Files 10.x for your company’s specific needs, our consultancy services are available. Our customer service staff is also available to assist with licensing and subscription matters.

**Upgrade instructions**

http://www.m-files.com/eng/res/How_to_upgrade_M-Files_software.pdf
3. A new, more intuitive user interface in Web Access

M-Files 10.2 introduces major improvements to the Web Access. In addition to the functional improvements, the new version is now better compatible with Mac OS X and leverages HTML5 for file operations.

**Note:** Some of the enhancements in this chapter are available in M-Files 10.1 or in M-Files 10.0 Service Releases 2 and 3. However, most of these new features require upgrading to M-Files 10.2.

### 3.1 New metadata card

![Image 1: The new metadata card](Image1)

A redesigned metadata card with a new interface makes editing metadata more intuitive, as well as saving documents and other data easier and faster. In addition, the new metadata card provides enhanced support for workflows, process automation and electronic forms.

**Note:** The Notifications and General tabs have been removed. Information that had been included on the General tab is now integrated into the new metadata card.

#### 3.1.1 Visual changes

The metadata card is now embedded in the M-Files Web Access UI in a manner that enables editing of properties without having to open additional windows. Properties are also realigned in the metadata card making it easier to quickly read key object metadata.
The Metadata card has two modes: view mode and edit mode. In view mode, users can quickly see metadata associated with the selected item. As the name implies, the edit mode allows users to directly edit object metadata and is activated by clicking directly on an editable metadata property. The blue ribbon in the metadata card turns orange in edit mode indicating that the user has unsaved changes. Once the changes are saved or discarded, the ribbon turns blue again.

3.1.2 Creating new documents

M-Files 10.2 introduces a new document creation wizard in Web Access to help you select the right template and class for a new document.
After selecting **New Document** from the task area, choose a document template from the list. You can also search for templates by entering a search term. The search displays all templates and file formats that match the search criteria, and highlight the search term in the results.

![New Document creation interface](Image 3)

The **Recently used** option shows all templates you have recently accessed and are shown by default when you open the template selection wizard. Selecting **All** displays all templates and file formats that are defined for the current vault. The **Blank** option displays all file formats that can be selected for a new document.

These predefined options are followed by a list of classes that can be used for selecting a template. Selecting a class displays the templates that are available for that class.

After the template has been selected or a blank document created, the metadata card for the new document opens and you can edit the document's properties.
3.1.3 Creating new objects other than documents

When creating any object other than a new document, the metadata card for the new object is displayed. The new metadata card provides the same functionality as the metadata card in previous M-Files releases.

![New Customer](image)

**ESTT Corporation**

Customer

<table>
<thead>
<tr>
<th>Class*</th>
<th>Customer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer name*</td>
<td>ESTT Corporation</td>
</tr>
<tr>
<td>Address (line 1)</td>
<td>---</td>
</tr>
<tr>
<td>Address (line 2)</td>
<td>---</td>
</tr>
<tr>
<td>City</td>
<td>---</td>
</tr>
<tr>
<td>State/province</td>
<td>---</td>
</tr>
<tr>
<td>ZIP/postal code</td>
<td>---</td>
</tr>
<tr>
<td>Country</td>
<td>---</td>
</tr>
<tr>
<td>Telephone number</td>
<td>---</td>
</tr>
<tr>
<td>Web site</td>
<td>---</td>
</tr>
</tbody>
</table>

*Add property*

Full control for all internal users

Check in immediately

Create  Cancel

**Image 4: New object creation via the new metadata card**

After you have entered values for mandatory fields (marked with an asterisk), the object can be saved by selecting the **Create** button. Selecting **Cancel** deletes the newly created object.

The **Check in immediately** option is selected by default to ensure that the new object is saved to the repository immediately after selecting **Create**. Alternatively, keep the object checked out to add additional metadata before saving it to the server.
3.1.4 Editing metadata of an existing object

Edit the metadata directly by modifying the property values in the metadata card. In addition to being able to directly edit property values, you can add or remove properties, change workflow-related information and modify permissions of the selected item(s).

Clicking on a property in the metadata card activates the edit mode, which displays the Save and Discard options at the bottom of the page. Clicking the Save button saves the changes, creates a new version of the object and returns the metadata card to view mode. Selecting Discard returns the metadata card to view mode without saving any modifications.

![Image 5: The new metadata card in edit mode](image)

3.1.5 "Popping out" the metadata card

Detach, or "pop out," the metadata card in a separate window by pressing the icon on the metadata card and selecting **Pop Out the Metadata Card**. This allows you to resize the metadata card full screen size, which may be helpful when working on with a computer with low resolution screen.
Image 6: Metadata card in a separate window with preview
3.1.6 Toolbar

The toolbar appears when you edit single-select or multi-select lookup properties in the metadata card. It displays all the available functions for the field in question. The available functions depend on the type and configuration of the property:

- **Add field** (in multi-select lookups only)
- **Remove field** (in multi-select lookups only)
- **Refresh list** (for external object types and value lists only)
- **Add value** (if adding values is allowed)
- **Edit** (for object types only)

![Image 7: The metadata card toolbar](image)

3.1.7 Comments view

The comments view can be accessed by selecting the icon from the metadata card. This view presents all the comments related to the file in a chronological order, as well as the option to add new comments.

Selecting the icon from the comments view brings you back to the properties view.

![Image 8: The comments view](image)
3.1.8 Adding objects as favorites

You can add objects as favorites by pressing the ★ button on the metadata card. Favorite objects are quickly accessible through the Favorites view in the M-Files Client, Mobile Access and Web Access. To remove an object from favorites, simply press the icon again.

Image 9: Add to Favorites

3.2 File preview

You can now preview files in Web Access. Web Access leverages the PDF reader extension in your browser and the easiest way to enable preview is to install Adobe Reader to the client computer.

Image 10: The new metadata card
3.2.1 Supported file formats in Preview

M-Files Web Access can preview the following file types:

- Microsoft Word files (docx, docm, dotx, dotm, doc, dot)
- HTML and web archive files (htm, html, mht, html)
- Microsoft Excel files (xlsx, xlsm, xlt, xltm, x1s, xlsb, x1t)
- Microsoft PowerPoint files (pptx, pptm, ppsx, ppsm, potx, potm, ppt, pps, pot)
- OpenDocument files (odt, ott, ods, odp)
- Visio Drawings (vsd, vdx, vss, vssx, vst, vtx, vdw)
- Email files (eml, emlx, msg)
- PDF files
- RTF files

3.3 New file operations

File operations in Web Access 10.2 have been enhanced remarkably.

3.3.1 Adding new files

To import new files to Web Access, simply drag and drop the file to the listing area in Web Access and specify the metadata for that document.
3.3.2 Importing multiple files

Import multiple files in M-Files Web Access by selecting the imported files and dragging and dropping them to the listing area.

![Image 12: Importing multiple files](Image 12)

Files can be imported either as multiple documents, which all can have unique metadata properties and permissions, or as a single multi-file document that has common metadata and permissions for all files.

![Image 13: Files can be imported as multiple documents or as a single document](Image 13)
**Note:** You can also import multiple files into a multi-file document. If you drag and drop files onto the multfile-document folder, they will be added as new files. If the document already contains files with same file names, the imported files are automatically renamed (e.g. Proposal.docx → Proposal(1).docx).

### 3.3.3 Replacing files

Replace an existing file with a new version, by dragging and dropping the new version onto the old version in Web Access.

*Image 14: Replacing a file in Web Access*

### 3.4 Saving searches as personal views

It is now possible to save searches as personal views in Web Access. You can specify search conditions in advanced search, perform the search, and then save the search as a personal view.
3.5 Downloading multiple files

Download multiple files from Web Access by pressing and holding the Ctrl key, selecting the files and then selecting the **Download files** feature from the task area. The files are downloaded as a single compressed (zip) package.

![Image 16: Downloading multiple files](image)

3.6 File Transfers

The file transfer progress is now shown in a separate “File Transfers" window, accessible via the Web Access task pane.
3.7 **Support for uploading large files (over 2GB)**

Large files are now uploaded in chunks allowing uploads larger than 2GB. The chunk-based upload is initiated when files are added via dragging and dropping.

3.8 **Support for selecting certain object types as forced search conditions**

It is now possible to force the search in Web Access only return results of a certain object type.

3.9 **Disable automatic filling of properties**

M-Files Web Access suggests pre-filling of properties by default. If, for example, a project object has customer property and the document class has both project and customer property, M-Files prefills the customer property with the customer of a project when the user selects the project value on the metadata card. This feature can be now disabled with a registry key value. See [Automatic filling of properties](#) document for detailed configuration instructions.

3.10 **Export to file**

With Export to file feature, you can export the metadata of listings to a CSV file.
Image 18: Export to file
4. Updates in M-Files mobile apps

M-Files offers native mobile apps for Android, iOS, and Windows Phone. You can download the mobile apps from respective app stores for free.

4.1 Mobile app features

M-Files mobile app improvements are being developed constantly and new releases are published to the market places frequently. The technical features differ slightly between different platforms and the table below lists current functionality in each app as of early October 2014.

<table>
<thead>
<tr>
<th>Device</th>
<th>iOS</th>
<th>Android</th>
<th>Windows Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>General information</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supported OS versions</td>
<td>iOS 7.0+</td>
<td>2.3.3+</td>
<td>8.0/8.1</td>
</tr>
<tr>
<td>Market Place Link</td>
<td>iTunes</td>
<td>Google Play</td>
<td>Windows Store</td>
</tr>
<tr>
<td>Accessing content</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Access assignments, favorites and recent objects</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Preview object files</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>View metadata</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>View relationships to and from the selected object</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Add objects to favorites</td>
<td>✓</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Open objects from M-Files URLs</td>
<td>✓</td>
<td>✓</td>
<td>✗</td>
</tr>
<tr>
<td>Open objects from .mflink attachments</td>
<td>✓</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Access all views</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Add shortcuts to views</td>
<td>N/A</td>
<td>✗</td>
<td>Live Tiles</td>
</tr>
<tr>
<td>Search</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Quick search</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Filter by object type</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Limit search to metadata or file contents only</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Editing content</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Edit metadata</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Participate in workflows</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Add comments</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Add electronic signatures</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Mark assignments complete</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Creating content</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Create new objects</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Add pictures or photos to existing objects</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Attach other files to existing objects</td>
<td>✗</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Save email attachments as new objects</td>
<td>✓</td>
<td>✓</td>
<td>✗</td>
</tr>
<tr>
<td>Scan documents using the camera of the device</td>
<td>✓</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Save documents from other apps to M-Files</td>
<td>✓</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Sharing</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Share files as email attachments</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Share files via M-Files URLs</td>
<td>✓</td>
<td>✓</td>
<td>✗</td>
</tr>
<tr>
<td>Share objects via M-Files URLs</td>
<td>✓</td>
<td>✓</td>
<td>✗</td>
</tr>
<tr>
<td>Share / Copy files to other applications</td>
<td>✓</td>
<td>✗**</td>
<td>✗**</td>
</tr>
</tbody>
</table>
### Device

<table>
<thead>
<tr>
<th>Actions from metadata card</th>
<th>iOS</th>
<th>Android</th>
<th>Windows Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Call to phone numbers from metadata card</td>
<td>✓</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Create a new email by clicking an email address on metadata card</td>
<td>✓</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Navigate to a website by pressing a hyperlink on metadata card</td>
<td>✓</td>
<td>✗</td>
<td>✗</td>
</tr>
</tbody>
</table>

### Security

| Encrypted connections to M-Files Server (https) | ✓   | ✓       | ✓             |
| Encryption of data at rest on mobile client | ✓*** | ✓*** | ✓*** |
| Active Directory integration | ✓   | ✓       | ✓             |
| Support for disabling logins by administrators | ✓   | ✓       | ✓             |
| Support for pre-shared key authentication | ✓   | ✓       | ✓             |

### Management

| Manage multiple vault connections | ✓   | ✓       | ✓             |

*) if the application used for viewing the file supports sharing the file via email.

**) If the application you open the file with supports this. Additionally, Android supports sharing files to Google Drive.

***) Supported by the operating system. User may need to enable this feature in phone settings.

### 4.2 Enabling M-Files Mobile Access

#### 4.2.1 Cloud servers

M-Files Mobile Access is enabled automatically for all Cloud Vault users. Use the prefix of the cloud server DNS name as the server name when configuring the mobile app for use the first time. If the DNS name of your cloud repository is customerx.cloudvault.m-files.com, specify customerx as server name.

![Image 19: Configuring a vault connection in iPhone app](image)

October 16, 2014
4.2.2 On-premises servers

On-premises users can enable M-Files Mobile Access by installing M-Files Web Access on M-Files server. Use the Web Access server’s public DNS name as the server name when configuring the vault connection in the mobile app. If your on-premises Web Access server is hosted at https://mfiles.mycompany.com, specify mfiles.mycompany.com as the server name.

**Note:** M-Files recommends allowing only encrypted connections from the public internet to your Web Access server. You must a trusted SSL certificate on your Web Access server to make the mobile app connections work. Self-signed certificates are not supported.
5. Support for annotation and redlining of documents

Annotate and redline documents in M-Files Client without modifying the actual file. This feature is especially useful for all kinds of review processes. Technically, M-Files stores annotations in xdf files within annotation objects. The M-Files viewer displays annotations as a layer on top of the annotated file.

![Image 20: Annotations feature in M-Files Client](image)

See the following Knowledge Base articles for more detailed information about the annotation and redlining capabilities:

- How to configure and use M-Files annotation and redlining tools
- Supported File Formats in Annotation
6. Security improvements

6.1 Support for pre-shared key authentication

M-Files now supports pre-shared key authentication. M-Files Server can be configured to require installation of pre-shared keys on computers, smartphones, and tablets attempting to access the server. This improvement enables administrators to allow secure remote connections to on-premises M-Files servers without having to configure a VPN.

Refer to Securing Access to M-Files Vaults with a Pre-Shared Key documentation for detailed configuration instructions.

6.2 Support for encrypted RPC connections

The desktop client of M-Files (M-Files Client) and M-Files Server communicate by using the Remote Procedure Call (RPC) protocol. By default, the RPC communication uses TCP port 2266 and is not encrypted.

Prior to M-Files 10.2, the only option to encrypt the network communication between M-Files Client and M-Files Server was to use HTTPS (RPC over HTTP with TLS/SSL). M-Files 10.2 adds the option to use RPC encryption to secure the communication between M-Files Client and M-Files Server.

RPC encryption does not require IIS or any other additional components and is often the simplest way to achieve encryption of network communication between M-Files Client and M-Files Server in the organization’s internal network.

For connections from outside the organization’s internal network, HTTPS or VPN should still be used because RPC communication to TCP port 2266 will often be blocked by firewalls.

See Protecting Data in Transit with Encryption in M-Files document for further details.

6.3 Support for anonymous authentication in RPC over HTTPS connections

Previously, M-Files always used the "MFGuest" account to authenticate with IIS when using RPC over HTTPS. It is now possible to use anonymous authentication with RPC over HTTPS. Enabling this improvement requires modifying both server and client side registry settings.

Refer to the Enabling RPC over HTTPS connections to M-Files Server document for more detailed information.
7. Improvements in M-Files UI Extensibility Framework

The M-Files UI Extensibility Framework is a collection of features, APIs, program execution environments and libraries that allow external add-ins (M-Files Applications) to customize the behavior of the M-Files Client and Server. The framework has been extended to support new scenarios and also the online documentation has been improved to include the new possibilities and to provide more sample applications.

7.1 Server-side applications

Previously M-Files Applications developed with UI Ext could only leverage client-side APIs. In 10.2 update, we have extended the support for server-side application. The main benefit is that developers can use multiple programming languages and integrated development environments, such as Visual Studio to more efficiently create M-Files applications.

Before 10.2, you were able to run server-side scripts either by using VBScript and M-Files event handlers or by creating standalone applications that leverage M-Files API and were run either manually or as scheduled jobs on M-Files server.

You can create server or vault applications. Server applications can be used to Server applications customize the whole M-Files Server. Vault applications customize a single M-Files vault. The applications can be developed with .NET Framework using any .NET compatible programming language, such as C#.

7.2 Vault extension methods

Vault extension methods feature allows direct invoking of server side scripts through M-Files API. These methods are event handlers that will trigger only, if it is explicitly invoked through API.

For more information, refer to Delegating Work to M-Files Server article in UI Ext documentation.

7.3 Asynchronous method calls

You can now call methods asynchronously in your M-Files application. This allows you to perform actions in the background without user having to wait for the completion of an API call.

For more information, refer to Calling Asynchronous M-Files API Vault Operations article in UI Ext documentation.

7.4 Direct use of .NET libraries

Client applications can now call .NET libraries directly. This allows developer to use more sophisticated debugging methods and more efficient development tools.

For more information, refer to Using Managed Assemblies with UI Extensibility Applications article in UI Ext documentation.

7.5 Embedding M-Files UI components

Developers can embed shell and file previewers in dashboards. This allows showing, for example, object listing of multiple views in a single dashboard. For more information, refer to Embedding Shell Listings and File Previewers in Dashboards article in UI Ext documentation.
7.6 Refreshing the listing or a specific object via a UI Ext application

UI Extensibility applications may trigger operations, for example vault extension methods that cause objects to be modified on the server. UI Extensibility applications are now able to refresh the current listing without disturbing the user's current selection or the listing's expand and collapse states. See `IShellListing` interface documentation for further details.

7.7 Support for changing the M-Files logo of the M-Files Windows Client

You can customize M-Files Client UI and replace the M-Files logo from top left corner with your own logo. See [How to change M-Files Client UI theme](#) document for further details.
8. Improvements to M-Files Client metadata card

8.1 Grouping of properties

System administrators to configure property groups on the metadata card. Users can expand and collapse property groups by clicking their titles.

8.2 Dynamic properties

Properties can now be configured to automatically include a set of additional properties to the metadata card. You can, for instance, automatically add mandatory “Effective through” property to the metadata card when user selects the “Fixed term” option in the Agreement type drop-down menu.
9. Improvements to Outlook Add-in

9.1 Support for saving email attachments as single-file documents in Outlook
Multiple attachments can now be saved as single-file documents in Outlook. The metadata card is displayed for each attachment, the values can be prefilled according to the previous metadata card, and some of the documents can be skipped.

9.2 Support for setting access permissions for a newly created Outlook folder
Added the standard permissions tab to the Outlook folder configuration. The permissions can now be adjusted for common folders.

![Image 21: Permissions tab in Outlook folders]

9.3 Retaining the previous metadata values of an object
In the Outlook folder settings, the administrator can now select property values which users can mark as retainable. From the list created by the administrator, users can then select the property values which they actually want to be retained upon saving the documents to M-Files.
Image 22: Retain the property value for this folder
10. Improvements to M-Files APIs and Scripting Interfaces

10.1 Support for new event handlers

The following new event handlers are added in M-Files 10.1:

- Before/AfterCreateLoginAccount
- Before/AfterModifyLoginAccount
- Before/AfterRemoveLoginAccount
- Before/AfterCreateUserAccount
- Before/AfterModifyUserAccount
- Before/AfterRemoveUserAccount
- Before/AfterCreateUserGroup
- Before/AfterModifyUserGroup
- Before/AfterRemoveUserGroup
- BeforeBringOnline
- AfterTakeOffline
- AfterCheckinChangesFinalize

10.2 Support for Single Sign-On (SSO) for current Windows user in Web Service

The use of SSO for current Windows user in M-Files Web Service has now been enabled. The user makes a request for an MFWS login page, storing a cookie in the user's browser. The cookie is used for authentication in future requests from the browser to the M-Files Web services REST interface.

10.3 New M-Files URL verbs

M-Files URL interface has been extended to support additional search features. The updated M-Files URL Properties documentation is available in M-Files Knowledge Base.
11. Other improvements

11.1 Support for Autodesk AutoCAD 2015 and AutoCAD LT 2015 (SP 1)

The necessary compatibility checks and changes have been done to M-Files for AutoCAD 2015 and AutoCAD LT 2015 (SP 1) support.

11.2 Support for Microsoft SQL Server 2014

The necessary compatibility checks and changes have been done to M-Files for Microsoft SQL Server 2014 support.

11.3 More operations allowed to be performed without sysadmin rights

M-Files Server user can be given more restricted permissions to the Microsoft SQL Server to maintain the service. Common maintenance operations like: take offline, bring online, attach (with original identity), detach and restore from backup are now supported without sysadmin rights. The main benefit of this improvement is that database admins do not have grant highest privileges to M-Files database user to run the application. The sysadmin rights are still needed to create new M-Files vault databases on SQL Server but the permissions can be restricted after that.

11.4 Support for SQL Server AlwaysOn availability groups

A registry setting now prevents M-Files Server from re-creating SQL Server logins also when the sysadmin server role is available. This allows M-Files Server to use the sysadmin server role when the vault database is hosted in an AlwaysOn Availability Group.

11.5 Better support for Citrix XenApp

The compatibility of M-Files Client in Citrix XenApp environments has been improved. See M-Files and Citrix XenApp and Enabling Shared Client Cache for M-Files in e.g. Citrix XenApp Environment documents for detailed information.

11.6 Possibility to configure the name property to Windows Logins

You add a registry key value to change the Active Directory name property that is mapped to the login details in M-Files.

This feature can be configured by adding the following registry value to the following key on M-Files server: "HKEY_LOCAL_MACHINE\SOFTWARE\M-Files\<version>\Server\MFServer"

<table>
<thead>
<tr>
<th>Value name</th>
<th>Type</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDAPFullNameProperty</td>
<td>REG_SZ</td>
<td>One of the following:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- displayName</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- sAMAccountName</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- cn</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- name</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- userPrincipalName</td>
</tr>
</tbody>
</table>
The default name property is now "displayName". If the configured name property was not found from AD, the fallback name property is "cn".
12. Language versions of M-Files software

M-Files software is available in 24 languages:

- ✔ English
- ✔ Finnish
- ✔ French
- ✔ German
- ✔ Spanish
- ✔ Chinese (Traditional/Taiwan)
- ✔ Chinese (Simplified/PRC)
- ✔ Japanese
- ✔ Hungarian
- ✔ Italian
- ✔ Portuguese (Brazil)
- ✔ Polish
- ✔ Dutch
- ✔ Russian
- ✔ Swedish
- ✔ Turkish
- ✔ Greek
- ✔ Croatian
- ✔ Slovenian
- ✔ Vietnamese
- ✔ Czech
- ✔ Bulgarian
- ✔ Arabic (Beta)
- ✔ Hebrew (Beta)

M-Files also lets you to translate the metadata structure to any language. Users can individualy select the software and metadata structure language of their preference.

The Web Access language is determined by each user’s browser settings. It is also possible for the system administrator to define the language via the Web Access configuration site regardless of the user’s browser settings.

The language of the Mobile Access user interface can be changed in the device settings.