



White Paper

Fabasoft Folio Client

Fabasoft Folio 2019

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1 Introduction

Fabasoft provides a native client that allows, for example, editing documents directly via the web client or synchronizing documents on the workstation. This document describes how to install and configure the Fabasoft Folio Client.

The Fabasoft Folio Client can be used with following products:

- Fabasoft Folio
- Fabasoft eGov-Suite

2 Software Requirements

System environment: All information contained in this document implicitly assumes a Microsoft Windows, Ubuntu or Apple macOS environment.

Supported platforms: For detailed information on supported operating systems and software, see the software product information.

Descriptions in this document are based on the following software:

- Microsoft Windows 10 Enterprise
- Apple macOS 10.14 (x64)
- Ubuntu 18.04 (x64) with Xorg window system

3 Microsoft Windows

This chapter refers to a Microsoft Windows operating system.

3.1 Installing

To install the Fabasoft Folio Client (into the per-machine installation context), perform the following steps:

1. Download the `FolioClient.msi` installation package from the Fabasoft Folio installation.
`https://<host>/<vdir>/fscasp/content/lib/FolioClient.msi`
Alternatively, you find the MSI file in the `Setup\ComponentsBase\Client` folder of the Fabasoft Folio distribution media.
2. Make sure that you have administrative rights.
3. Run the `FolioClient.msi` installation package and follow the installation wizard.

The Fabasoft Folio Client is installed in the following folder:

`C:\Program Files (x86)\Fabasoft\Folio 2019\Client\`

In case of a 32 bit operating system the base folder is `Program Files`.

3.2 Deployment via Active Directory

The deployment of per-machine installation packages via Active Directory is described in the white paper "[Deployment of ActiveX Controls via Microsoft Windows Active Directory](#)".

3.2.1 Deployment of the Google Chrome Extension

The deployment of the Google Chrome Extension is described in the official Chromium documentation: <http://dev.chromium.org/administrators/policy-list-3#ExtensionInstallForcelist>

In case of the Fabasoft Folio Client the following key should be deployed:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Google\Chrome\ExtensionInstallForcelist
"1"="nofhaafhnnklcdahnbackdgpnimcpob;https://clients2.google.com/service/update2/crx"
```

3.2.2 Deployment of the Mozilla Firefox Extension

The deployment of the Mozilla Firefox Extension is described in the official Mozilla documentation: https://developer.mozilla.org/en-US/Add-ons/WebExtensions/Alternative_distribution_options/Add-ons_in_the_enterprise

In case of the Fabasoft Folio Client the following key should be deployed:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Mozilla\Firefox\Extensions
"nmextmozpml9@fabasoft.com"="<path_to_extracted_FolioFirefoxExtension_xpi>"
```

This archive file is located on the web server and can be extracted using any ZIP extractor:

```
https://<host>/<vdir>/fscasp/content/lib/FolioFirefoxExtension.xpi
```

Note: Without changing the Mozilla Firefox preferences (as described in the documentation: `extensions.autoDisableScopes`, `extensions.enabledScopes`), each user will be notified on the next application startup, that a new Mozilla Firefox Extension was installed. In this case, the user must explicitly confirm, that the Mozilla Firefox Extension should be enabled.

3.3 Trusted Sites for Fabasoft app.telemetry

To allow that Fabasoft app.telemetry get more information about the client configuration and taking a screenshot, when pressing the app.telemetry feedback button you have to manually set a trusted site registry key for your web service URL.

```
Key: HKEY_CURRENT_USER\Software\Fabasoft\WebClient\TrustedSites
Value name: <web service URL e.g. folio.example.com>
Type: REG_SZ
Value data: 1
```

3.4 General Settings

To avoid that users have to make settings on their own and for best performance deploy following settings on the clients:

- Add the defined domain name (HTTP) to the trusted sites. This is necessary to enable features like opening and saving documents directly via the web browser.

```
Key: HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet
Settings\ZoneMap\Domains\<domain name e.g. example.com>\<hostname e.g. folio>
Value name: http
Type: REG_DWORD
Value data: 2
```

- Add the defined domain name (HTTPS) to the trusted sites. This is necessary to enable features like opening and saving documents directly via the web browser.

Key: HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings\ZoneMap\Domains**Value name:** https
Type: REG_DWORD
Value data: 2

- Disable ActiveX Filtering (<https://support.microsoft.com/en-us/help/17469/windows-internet-explorer-use-activex-controls>).

Key: HKEY_CURRENT_USER\Software\Microsoft\Internet Explorer\Safety\ActiveXFiltering
Value name: IsEnabled
Type: REG_DWORD
Value data: 0

- Increase the WebDAV file size limit to 1 GB to be able to work with large documents.

Key: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WebClient\Parameters
Value name: FileSizeLimitInBytes
Type: REG_DWORD
Value data: 1073741824

- Allow opening hyperlinks in Microsoft Office (<http://support.microsoft.com/kb/218153>).

Key: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Office\9.0\Common\Internet (32 bit operating system)
or
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Office\9.0\Common\Internet (64 bit operating system)
Value name: ForceShellExecute
Type: REG_DWORD
Value data: 1

For more information about the meaning of these keys, consult <http://msdn.microsoft.com>.

3.5 Predefined Settings for Users

The users have the possibility to make different settings in the options dialog. These settings can also be set by the administrator using group policies so that the users can no longer change them.

To ease the group policy setup, you can find the corresponding administrative template here: [Policy Templates](#).

The predefined settings can be defined in the following registry key:

HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Fabasoft\NativeClient\Folio

- Enable Synchronization
Value name: SYNC_FS
Type: REG_DWORD
Value data (disabled): 0
Value data (enabled): 1
- Enable LAN Synchronization
Value name: SYNC_FS_LAN
Type: REG_DWORD
Value data (disabled): 0
Value data (enabled): 1

- Restrict Path Length for Synchronization
Value name: SYNC_FS_LONGPATH
Type: REG_DWORD
Value data (disabled): 0
Value data (enabled): 1
- Enable Contact Synchronization
Value name: SYNC_MAPI_CONTACT
Type: REG_DWORD
Value data (disabled): 0
Value data (enabled): 1
- Enable Open Network Drive
Value name: MOUNT_WEBDAV
Type: REG_DWORD
Value data (disabled): 0
Value data (enabled): 1
- Automatic Proxy Login
Value name: AUTOLOGIN_PROXY
Type: REG_DWORD
Value data (disabled): 0
Value data (enabled): 1
- Download Speed Limitation
Value name: DOWNLOAD_KBSEC
Type: REG_DWORD
Value data (disabled): 0
Value data (enabled): <KB/s>
- Upload Speed Limitation
Value name: UPLOAD_KBSEC
Type: REG_DWORD
Value data (disabled): 0
Value data (enabled): <KB/s>
- Generate PDF Preview on the Workstation (Unencrypted Documents)
Value name: AUTOSAVE_PDF
Type: REG_DWORD
Value data (disabled): 0
Value data (enabled): 1
- Generate PDF Preview on the Workstation (Encrypted Documents)
Value name: AUTOSAVE_PDF_ENC
Type: REG_DWORD
Value data (disabled): 0
Value data (enabled): 1
- Generate Thumbnails From the PDF Preview on the Workstation (Encrypted Documents)
Value name: AUTOSAVE_THUMB_ENC
Type: REG_DWORD
Value data (disabled): 0
Value data (enabled): 1

3.6 File and Registry Locations

The data in these locations must not be removed or modified. The configuration settings will be written during the setup process and/or when logging in with the Fabasoft Web Browser Client.

- C:\Users\- C:\Users\- C:\Users\- C:\Program Files (x86)\Fabasoft
- HKEY_CURRENT_USER\Software\Fabasoft
- HKEY_CURRENT_USER\Software\Classes\CLSID\- HKEY_CURRENT_USER\Software\Classes\- HKEY_CURRENT_USER\Software\Microsoft\Office\Excel\AddIns\- HKEY_CURRENT_USER\Software\Microsoft\Office\Outlook\AddIns\- HKEY_CURRENT_USER\Software\Microsoft\Office\PowerPoint\AddIns\- HKEY_CURRENT_USER\Software\Microsoft\Office\Word\AddIns\- HKEY_CURRENT_USER\Software\Mozilla\NativeMessagingHosts\- HKEY_CURRENT_USER\Software\Google\Chrome\NativeMessagingHosts\- HKEY_LOCAL_MACHINE\SOFTWARE\Fabasoft
- HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\Fabasoft
- HKEY_LOCAL_MACHINE\SOFTWARE\Classes\CLSID\- HKEY_LOCAL_MACHINE\SOFTWARE\Classes\- HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Explorer\ShellIconOverlayIdentifiers
- HKEY_LOCAL_MACHINE\SOFTWARE\Classes*\shellex\ContextMenuHandlers\- HKEY_LOCAL_MACHINE\SOFTWARE\Classes\Directory\background\shellex\ContextMenuHandlers\- HKEY_LOCAL_MACHINE\SOFTWARE\Classes\Directory\shellex\ContextMenuHandlers\- HKEY_LOCAL_MACHINE\SOFTWARE\Classes\Folder\Background\shellex\ContextMenuHandlers\- HKEY_LOCAL_MACHINE\SOFTWARE\Classes\Folder\shellex\ContextMenuHandlers\- HKEY_LOCAL_MACHINE\SOFTWARE\Classes\IE.AssocFile.URL\ShellEx\ContextMenuHandlers\- HKEY_LOCAL_MACHINE\SOFTWARE\Classes\IE.AssocFile.WEBSITE\ShellEx\ContextMenuHandlers\- HKEY_LOCAL_MACHINE\SOFTWARE\Classes\InternetShortcut\ShellEx\ContextMenuHandlers\- HKEY_LOCAL_MACHINE\SOFTWARE\Classes\lnkfile\shellex\ContextMenuHandlers\- HKEY_LOCAL_MACHINE\SOFTWARE\Classes\Microsoft.Website\shellex\ContextMenuHandlers\

4 Apple macOS

This chapter refers to an Apple macOS operating system.

4.1 Installing

To install the Fabasoft Folio Client, perform the following steps:

1. Download the `FolioClient.dmg` installation package from the Fabasoft Folio installation.
`https://<host>/<vdir>/fscasp/content/lib/FolioClient.dmg`
Alternatively, you find the DMG file in the `Setup\ComponentsBase\Client` folder of the Fabasoft Folio distribution media.
2. Double-click the DMG file.
3. Drag the app to the “Applications” folder.
Note: In case of an update keep in mind to close the Fabasoft Folio Client (menu bar > Folio symbol > Quit) before dragging the new app to the “Applications” folder and replacing the old one.
4. Open the “Applications” folder and run the Fabasoft Folio Client.
5. Enter the credentials of an administrative user to finish the installation.

4.2 Uninstalling

Uninstalling the Client

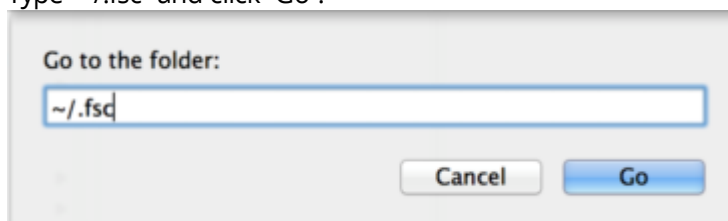
To uninstall the Fabasoft Folio Client, perform the following steps:

1. Quit the Fabasoft Folio Client.
2. Open “System Preferences” > “Extensions” and disable the “Finder” entry under “Fabasoft Folio”.
3. Open “Finder” and delete the following files:
 - o `/Applications/Fabasoft Folio 2019.app`
 - o `/Library/Internet Plug-Ins/npFabasoftFolio19.plugin`
 - o `/Library/PrivilegedHelperTools/com.fabasoft.finderinjectorpm19`
 - o `~/Library/Application Support/Fabasoft`

Removing the Fabasoft Settings (Optional)

To remove the settings, perform the following steps:

1. Open the Finder, point to “Go” and click “Go to folder”.
A dialog box opens.
2. Type “`~/fsc`” and click “Go”.



This command leads you to the folder containing the settings.

3. Delete the `.fsc` folder.

Note: When removing the `.fsc` folder all settings and not yet saved files will be lost.

4.3 File and Registry Locations

The data in this locations must not be removed or modified. The data will be written during the setup process or when logging into the web browser client.

- /Applications/Fabasoft Folio 2019.app
- /Library/Internet Plug-Ins/npFabasoftFolio19.plugin
- /Library/PrivilegedHelperTools/com.fabasoft.finderinjectorpm19
- ~/Library/Application Support/Fabasoft
- ~/.fsc/

5 Ubuntu

This chapter refers to an Ubuntu operating system.

5.1 Installing

To install the Fabasoft Folio Client, perform the following steps:

1. Download the `folioclient_amd64.deb` installation package from the Fabasoft Folio installation.
`https://<host>/<vdir>/fscasp/content/lib/folioclient_amd64.deb`
Alternatively, you find the DEB file in the `Setup\ComponentsBase\Client` folder of the Fabasoft Folio distribution media.
2. Double-click the `folioclient_amd64.deb` file and install it.

Note: Make sure that the prerequisite packages `libgnomevfs2-0` and `libgnomevfs2-common` are installed before installing the Fabasoft Folio Client.

5.2 Client Certificates

When using a certificate-based authentication the client certificates have to be stored in the Fabasoft Client. To do so, open the context menu of the notification symbol and click "Options". On the "Certificates" tab, import the client certificate.

5.3 Uninstalling

To uninstall the Fabasoft Folio Client, perform the following steps:

1. Open a terminal and execute the following command:
`sudo dpkg -r folioplugin`
1. Delete the `.fsc` folder in your home directory.

Note: When removing the `.fsc` folder all settings and not yet saved files will be lost.

5.4 File and Registry Locations

The data in these locations must not be removed or modified. The configuration settings will be written during the setup process and/or when logging in with the Fabasoft Web Browser Client.

- /opt/fabasoft
- /etc/opt/chrome/native-messaging-hosts

- `/etc/chromium/native-messaging-hosts`
- `/usr/lib/mozilla/native-messaging-hosts`
- `/usr/share/applications/`
- `~/.fsc/`

6 Network Settings

To ensure the proper functionality of the Fabasoft Folio Client, correct network settings (e.g. proxy) in the operating system are mandatory. The used web browsers must be configured so that they use these network settings.

7 Certificate Settings

If you use your own server certificates that are not commonly trusted, you have to add the corresponding CA as a trusted root certificate on the clients.

For detailed information about adding trusted root certificates consult the documentation of the corresponding operating system.

Microsoft Windows

You can use the "Certificates" MMC snap-in.

Apple macOS

Double-click the CA certificate, add it to the keychain and choose "Always Trust".

Ubuntu

Store the CA certificate in `/usr/local/share/ca-certificates/` and execute the following command: `sudo dpkg-reconfigure ca-certificates`

8 Web Browser Settings

When installing the native client also plug-ins for Microsoft Internet Explorer, Mozilla Firefox and Safari are provided. For Google Chrome an own extension has to be downloaded from the Google Chrome Web Store (see chapter 8.2 "Google Chrome"). Make sure that the plug-ins are allowed in the used web browser ("allow always").

Microsoft Internet Explorer

"Tools" > "Manage Add-ons" > "Toolbars and Extensions"

Mozilla Firefox

"Menu" > "Add-ons" > "Plugins"

Apple Safari

"Preferences" > "Security" > "Internet plug-ins" > "Website Settings"

Google Chrome

"Customize and control Google Chrome" > "Extensions"

Further configuration steps

If a web browser is not optimally configured, the Fabasoft Web Client shows the necessary configuration steps in the “Web Browser State”. For Microsoft Internet Explorer it is possible to deploy the necessary registry keys (see next chapter).

8.1 Microsoft Internet Explorer

To avoid that users have to make settings on their own and for best performance deploy following settings on the clients:

- Enable the native XMLHTTP support (“Tools” > “Internet Options” > “Advanced” > “Enable native XMLHTTP support”). Dynamic web applications generally rely on XMLHTTP requests.
Key: HKEY_CURRENT_USER\Software\Microsoft\Internet Explorer\Main
Value name: XMLHTTP
Type: REG_DWORD
Value data: 1
- Disable the pop-up blocker for the defined domain name (“Tools” > “Pop-up Blocker” > “Pop-up Blocker Settings” > “Allowed Sites”). Some use cases (e.g. “Explore”) open a new window. To avoid warnings, pop-ups should be allowed.
Key: HKEY_CURRENT_USER\Software\Microsoft\Internet Explorer\New Windows\Allow
Value name: <web service domain name e.g. *.example.com>
Type: REG_BINARY
Value data: 0
- Enable the caching of SSL pages (“Tools” > “Internet Options” > “Advanced” > “Do not save encrypted pages to disk”). Improves the performance of HTTPS connections.
Key: HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings
Value name: DisableCachingOfSSLPages
Type: REG_DWORD
Value data: 0
- Disable the client certificate selection in the trusted sites, if not more than one certificate exists (“Tools” > “Internet Options” > “Security” > “Trusted sites” > “Don’t prompt for client certificate selection when no certificates or only one certificate exists”). If you access the system with a certificate, you can avoid the certificate selection dialog.
Key: HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Internet Settings\Zones\2
Value name: 1A04
Type: REG_DWORD
Value data: 0
- Allow the execution of the native client that is used e.g. for opening and saving documents directly via the web browser.
Key:
HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Ext\Stats\{7FB9B738-B8BD-41f2-A514-F82F16483DE0}\iexplore\AllowedDomains\<domain name e.g. example.com>
- Increase the number of concurrent connections to the web server to improve the performance.
Key: HKEY_CURRENT_USER\Software\Microsoft\Internet Explorer\Main\FeatureControl\FEATURE_MAXCONNECTIONSPERSERVER
Value name: iexplore.exe
Type: REG_DWORD
Value data: 6

- Increase the number of concurrent connections to the web server to improve the performance.

Key: HKEY_CURRENT_USER\Software\Microsoft\Internet Explorer\Main\FeatureControl\FEATURE_MAXCONNECTIONSPER1_0SERVER

Value name: iexplore.exe

Type: REG_DWORD

Value data: 6

For more information about the meaning of these keys, consult <http://msdn.microsoft.com>.

8.2 Google Chrome

For Google Chrome beside the native client also a Chrome extension is needed.

To install the Fabasoft Folio web browser extension, perform the following steps:

1. Search in the Google Chrome Web Store for the extension:
<https://chrome.google.com/webstore/search/fabasoft%20folio>
2. Click "Add to Chrome".
3. Click "Add" to confirm adding the extension.

Note: If you want to use the extension in the Google Chrome incognito mode, you have to select "Allow in incognito" for the extension.

8.3 Mozilla Firefox

For Mozilla Firefox beside the native client also a Firefox extension is needed.

To install the Fabasoft Folio web browser extension, perform the following steps:

4. Open Fabasoft Folio
`https://<host>/<vdir>/`
5. In the web browser state, you will be notified to install the Fabasoft Folio Firefox Extension.
6. Click "Add it now".
7. Click "Allow".
8. Click "Add" to confirm adding the extension.

9 Working With Third-Party Products

A core feature of Fabasoft products is the management of a varied range of content. This includes running the tools needed for viewing and editing content like documents or pictures.

These tools are required to be installed on client workstations.

The native client identifies the type of content and uses mechanisms of the client operating system to map a tool to the identified type. The native client honors security policies of the client operating system and adds Fabasoft-specific security structures on top of the operating system.

9.1 Deploying predefined configuration

For the rollout of the Fabasoft Folio Client configuration, there is the possibility that the Fabasoft Folio Client automatically fetches the configuration from the server at startup. This configuration is necessary if the Microsoft Office ribbons or the synchronized folder should be used before a user

has ever logged on to the respective domain. Because the first time the user accesses the domain via a web browser, this configuration will be loaded. Therefore you only have to configure your web service URL on all clients.

Key: HKEY_LOCAL_MACHINE\SOFTWARE\Fabasoft\NativeClient\Folio\cx

Value name: DomainHref

Type: REG_SZ

Value data: <web service URL e.g. https://folio.example.com/folio/>

Note: This setting can only be used with integrated authentication.

9.2 Security Settings

When performing operations like viewing, editing or playing content the native client runs tools installed on the client workstation. Which tool has to perform a given operation on a given type of content is determined by mechanisms defined by the Microsoft Windows Shell. These mechanisms are described in <http://msdn2.microsoft.com/en-us/library/bb762764.aspx>.

Furthermore, the execution of programs by the Microsoft Windows Shell is controlled by security policies, as described in the following documents:

<http://technet2.microsoft.com/WindowsServer/en/Library/9044c404-c9ab-40a2-b804-06703c54ee421033.msp>

<http://www.microsoft.com/technet/prodtechnol/windows2000serv/reskit/regentry/93497.msp>

In addition, the native client defines restriction points applying to Fabasoft products only. These are part of the broader customization mechanisms for running tools, defined by the registry sub tree HKEY_CURRENT_USER\Software\Fabasoft\Process Parameters.

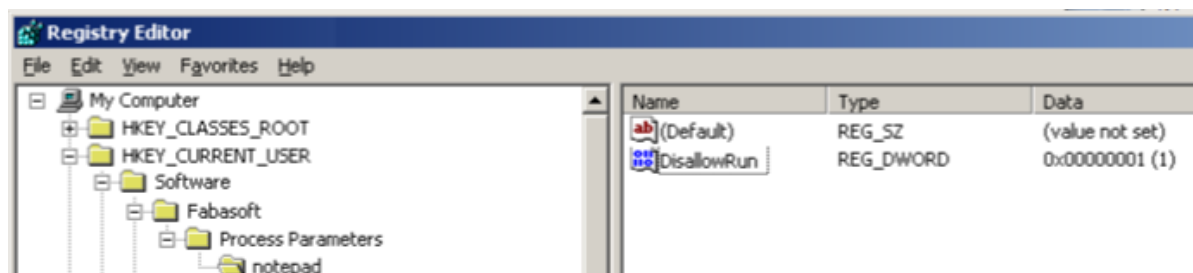
In the root of this tree one of two policies can be declared:

- If a named value of type `String` with the name `Security` and the value "Black" is present, the so called "Blacklist Security" policy applies.
- Otherwise, the mode of operation is "Whitelist Security".

9.2.1 Blacklist Security

This security policy is the less secure tool restriction mode. It is therefore switched off by default. Any program not restricted by operating system policies and not explicitly disallowed by the native client is allowed to run. To explicitly disallow the execution of a tool, there must be a registry key HKEY_CURRENT_USER\Software\Fabasoft\Process Parameters\<base name of the tool executable> holding a named value of type `DWORD` with the name `DisallowRun` and the value "1".

Example:



The setting in this example does not allow loading any executable from a file with the base name “notepad”. The base name comparison is case-insensitive.

Default Blacklist

If the native client security is set to “Black”, the following executables are disallowed by default:

- Standard script engine hosts
 - wscript
 - cscript
- Elevated browsers
 - mshta
- Standard registry editors
 - regedit
 - regedt32

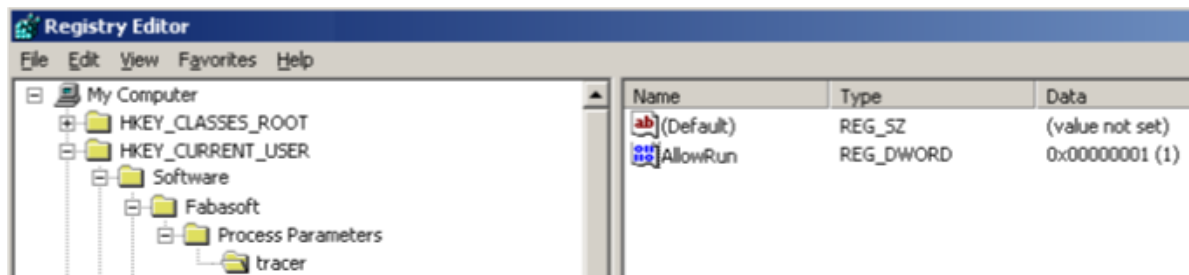
For any of these executables, no registry entry is needed to disallow its execution. If there is an explicit entry, execution can be allowed by setting the named value `DisallowRun` to the value “0”.

9.2.2 Whitelist Security

This is the default native client security mode. Tool execution is restricted to an explicit list of executables. Only executables defined by that list can be executed within a Fabasoft product if not restricted by operating system policies.

To explicitly allow the execution of a tool, there must be a registry key `HKEY_CURRENT_USER > Software > Fabasoft > Process Parameters > <base name of the tool executable>` holding a named value of type `DWORD` with the name `AllowRun` and the value “1”.

Example:



The setting in this example allows loading an executable from a file with the base name “tracer”. The base name comparison is case-insensitive.

Default Whitelist

If the native client security is set to any value other than “Black”, the following executables are allowed by default:

- Standard text editors/viewers
 - notepad
 - wordpad
- Standard image editors/viewers
 - mspaint
 - rundll32 [shimgvw]
 - rundll32 [photoviewer]

- **Standard final format editors/viewers**
 - `acrord32`
 - `acrobat`
 - `xpsviewer`
- **Supported package editors/viewers**
 - `winzip32`
 - `rundll32 [zipfldr]`
- **Supported signature editors/viewers**
 - `siqsec`
- **Supported help viewers**
 - `hh`
- **Supported mail clients**
 - `thunderbird`
 - `outlook`
 - `msimn`
- **LibreOffice**
 - `soffice`
 - `swriter`
 - `scalc`
 - `simpres`
 - `sdraw`
 - `smath`
- **Microsoft Office**
 - `winword`
 - `excel`
 - `powerpnt`
 - `visio`
 - `msaccess`
 - `mispub`
 - `frontpg`
 - `fpeditor`
 - `winproj`
 - `wordview`
 - `xlview`
 - `pptview`
 - `ois`
- **Windows Media Player**
 - `wmplayer`
- **Apple Quicktime Player**
 - `quicktimeplayer`

For any of these executables, no registry entry is needed to allow its execution. If there is an explicit entry, execution can be disallowed by setting the named value `AllowRun` to the value "0".

9.3 Document Properties

Document properties allow you to embed read-only metadata in documents edited with Microsoft Word. Before you can insert document properties into a Microsoft Word document, you have to activate the Fabasoft Folio COM add-in that is installed with the native client. To enable the COM add-in, click the Office button and click "Word Options". In the dialog box, click "Add-Ins", select "COM Add-Ins" in the *Manage* drop-down list box and click "Go". In the dialog box that is opened, select "Fabasoft Folio 2019 Word Extension" and click "OK".

Note: The document properties will only be refreshed when opening the document, if the add-in is active.

The COM add-in can be activated manually as described above, or the corresponding registry keys can be deployed after installing the native client.

```
[HKEY_CURRENT_USER\Software\Microsoft\Office\Word\Addins\FolioPM19.OxWord]
"FriendlyName"="Fabasoft Folio 2019 Word Extension"
"LoadBehavior"=dword:00000003
```

9.4 Temporary Files

To be able to edit or read a document in a third-party product the document file has to be stored temporarily on the client. The location of the temporary files can be manually defined by setting the following registry key:

```
[HKEY_CURRENT_USER\Software\Fabasoft\WebClient\ConfigValues\Enterprise19\DocDir]
@="directory path"
```

The directory path can be defined the following way:

- absolute directory path (e.g. C:\MyTempFolder)
The user needs write access to the directory.
- <local>
Corresponds to CSIDL_LOCAL_APPDATA under Microsoft Windows (e.g. C:\Users\- <roaming>
Corresponds to CSIDL_APPDATA under Microsoft Windows (e.g. C:\Users\- <temp>
The temporary directory (e.g. C:\Users\

9.5 Mail Merge on Microsoft Windows

9.5.1 Microsoft Office

Working with Microsoft Word mail merge documents differs from working with normal documents.

- First the document is opened in the background (invisible) and the mail merge data is applied.
- Subsequently the document is saved, closed and reopened including the mail merge data.
- After closing the document, the document will be opened again in the background (invisible) and the mail merge data will be removed from the document.

The steps in which the mail merge data source operations are carried out can be influenced by customer macros that may prevent a correct processing. Therefore all macros will be deactivated

for the background steps and are only active when the document is opened regularly including a Microsoft Word user interface. Macros can be activated at your own risk with the with following registry key:

```
Windows Registry Editor Version 5.00
[HKEY_CURRENT_USER\Software\Fabasoft\WebClient\ConfigValues\Enterprise19]
"MSWORD_disablemacros"="false"
```

It is also possible to define the maximum delay (ms) and retry time (ms) for the attaching mail merge data call. This may be necessary because opening a mail merge document with macros often lasts longer.

```
Windows Registry Editor Version 5.00
[HKEY_CURRENT_USER\Software\Fabasoft\WebClient\ConfigValues\Enterprise19]
"MSWORD_timeout"=dword:00007530
```

```
Windows Registry Editor Version 5.00
[HKEY_CURRENT_USER\Software\Fabasoft\WebClient\ConfigValues\Enterprise19]
"MSWORD_retrydelay"=dword:000003e8
```

9.5.2 LibreOffice

To use the mail merge functionality, a LibreOffice extension is required. To install the Fabasoft Folio Client for LibreOffice, perform the following steps:

1. Download the `FolioClientLibreOffice.msi` installation package from the Fabasoft Folio installation.
`https://<host>/<vdir>/fscasp/content/lib/FolioClientLibreOffice.msi`
Alternatively, you find the MSI file in the `Setup\ComponentsBase\Client` folder of the Fabasoft Folio distribution media.
2. Make sure that you have administrative rights.
3. Run the `FolioClientLibreOffice.msi` installation package and follow the installation wizard.

After the installation is successfully completed, the extension appears in the “Extension Manager” of LibreOffice.

9.6 Mail Merge on Linux

To use the mail merge functionality, a LibreOffice extension is required. To install the Fabasoft Folio Client for LibreOffice, perform the following steps:

1. Download the `FolioClientLibreOffice.zip` package from the Fabasoft Folio installation.
`https://<host>/<vdir>/fscasp/content/lib/FolioClientLibreOffice.msi`
Alternatively, you find the ZIP file in the `Setup\ComponentsBase\Client` folder of the Fabasoft Folio distribution media.
2. Open the LibreOffice Writer application
3. Open the “Extension Manager” in the “Tools” menu and click on “Add”
4. In the file dialog choose the `FolioClientLibreOffice.zip` file and click “Open”
5. The extension will now be installed and appear in the list of the installed extensions.
6. After the installation is successfully completed, the extension appears in the “Extension Manager” of LibreOffice.

Note: Make sure that `libreoffice-base_<version>.deb` is installed. If you install LibreOffice manually, make sure that a symbolic link to `soffice` exists:

```
sudo ln -s /opt/libreoffice<version>/program/soffice /usr/sbin/soffice
```

9.7 Delay Uploading a Changed Document

The upload of a changed document can be delayed. In normal circumstances, this setting is not necessary. However, if you use Microsoft Office 2010 and specially configured virus scanners, this setting can be used to prevent documents from being locked and opened read-only.

```
Windows Registry Editor Version 5.00
```

```
[HKEY_CURRENT_USER\Software\Fabasoft\WebClient\ConfigValues\Enterprise19]  
"UPLOAD_handsoffseconds"=dword:00000002
```

The registry entry defines the minimum time in seconds between the last change and the upload. The default value is 0. If you notice problems, try the value 2 (possible values are from 0 to 5).

10 Importing

It may be necessary to adjust the following limits.

10.1 E-Mails With Long Subject

If the subject of an imported e-mail contains a long text, the request URL may exceed the default limit of Microsoft Internet Information Services. Information about increasing the limit can be found [here](#) (UrlSegmentMaxLength):

<http://support.microsoft.com/kb/820129>

10.2 Special Characters

If the file name of an imported file contains many special characters, the escaped request URL may exceed the default limit of Microsoft Internet Information Services. Information about increasing the limit can be found here:

<http://www.iis.net/ConfigReference/system.webServer/security/requestFiltering/requestLimits>

11 Proxy Settings

The following chapters show how to define proxy settings.

11.1 General

We support the default method for defining a proxy server on the appropriate operating system. On Windows, this configuration can be done in the „Internet Options“, on Apple macOS this could be done in the “System Settings -> Network -> Proxies“. On Ubuntu, this configuration has to be done via environment variables

```
export http_proxy=http://your.proxy.server:port/  
export https_proxy=https://your.proxy.server:port/  
auto_proxy=http://your.server/wpad.dat
```

11.2 Automatic Proxy Configuration

For security reasons we only support the automatic proxy configuration via the direct configuration of the Proxy-Auto-Config URL (PAC-URL). We do not support automatically retrieving this URL via Web Proxy Autodiscovery Protocol.

We first look for a proxy server bypass configuration, then for a manually configured proxy server. If there's no bypass and no manually proxy server configuration we evaluate the PAC URL.

Our fallback for every error or misconfiguration is a direct connection to the server.

This file will be evaluated every 30 minutes and additionally on a change of the system configuration, except on Ubuntu, there you have to restart the system.

If the URL or any proxy server evaluated from the URL is not reachable it will be ignored for the next 30 minutes.

If the script delivered from the PAC URL hangs or needs longer than 5 seconds, we abort the evaluation.

