



White Paper

Fabasoft Integration for Novell GroupWise

Fabasoft Folio 2017 R1 Update Rollup 2

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1 Introduction

This document describes how to integrate and configure buttons (a maximum of four) in Novell GroupWise. When a button is clicked, an action in Fabasoft Folio is called, and the selected e-mail is passed to the action as a parameter.

Furthermore this document describes how to configure Novell GroupWise to enable drag-and-drop importing of e-mails into Fabasoft Folio using Microsoft Internet Explorer.

2 Software Requirements

System environment: All information contained in this document implicitly assumes a Microsoft Windows environment.

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

Descriptions in this document are based on the following software:

- Microsoft Windows Server 2016 Standard
- Novell GroupWise 2014

3 Prerequisites

The Fabasoft Folio Client (`Setup\ComponentsWeb\Client\FolioClient.msi`) has to be installed on the clients in order to be able to use the buttons in Novell GroupWise.

4 Installation

The use of Novell GroupWise buttons requires the installation of the following MSI package on the client:

```
Setup\ComponentsWeb\Client\FolioClientGroupWise.msi
```

Note: The installation package can be deployed using a Microsoft Windows Active Directory.

The Novell GroupWise buttons can be configured with a provided administrative template or by editing the Microsoft Windows Registry manually.

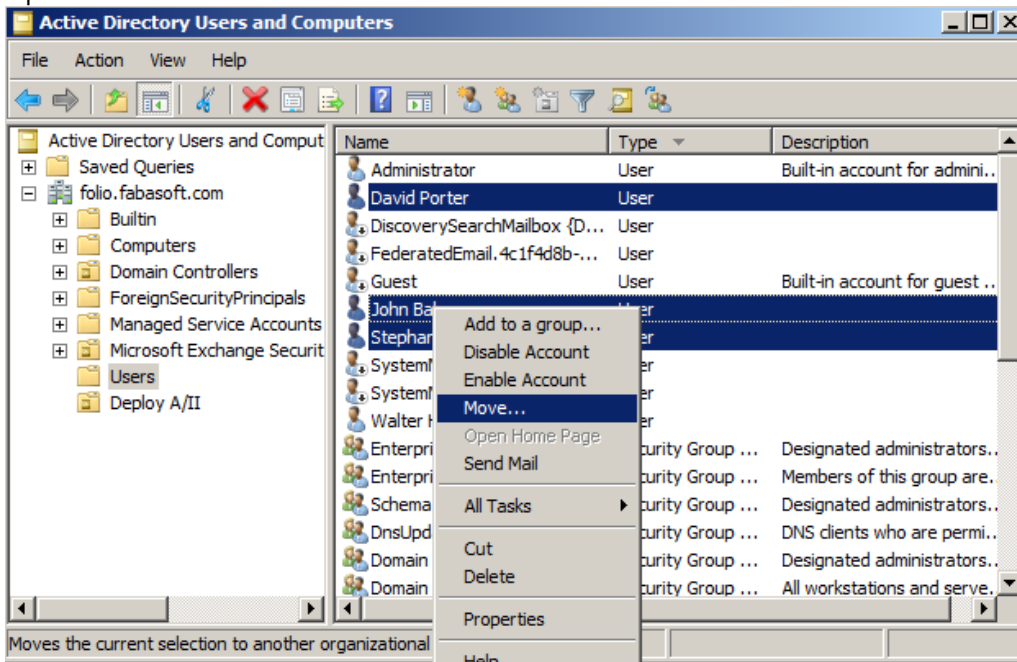
5 Configuration Using an Administrative Template

Novell GroupWise buttons can be administrated by an *Administrative Template*, which for example allows the distribution of Microsoft Windows Registry entries.

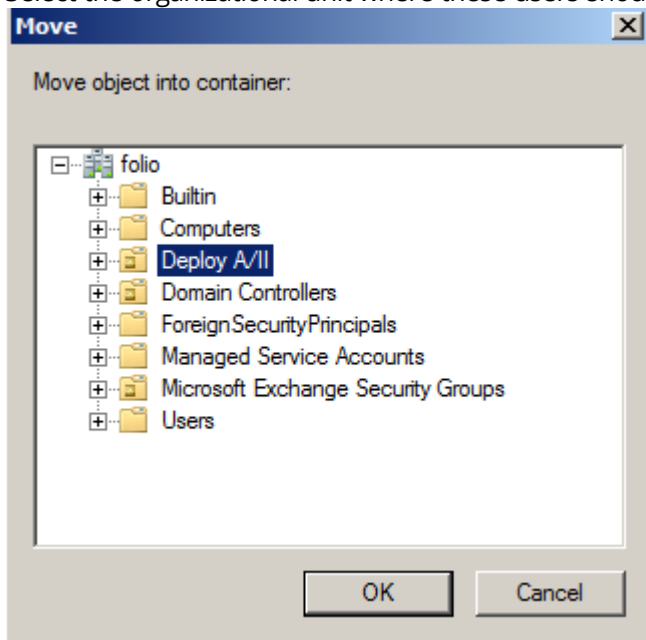
Administrative templates can be applied to users or computers with help of a group policy object. To deploy Microsoft Windows Registry settings with a Microsoft Windows Active Directory, perform the following steps:

1. Start the "Active Directory Users and Computers" MMC snap-in ("Start" > "Administrative Tools" > "Active Directory Users and Computers"). This console helps to administrate users and computers in a Microsoft Windows Active Directory.

2. Open the context menu and click "Move".

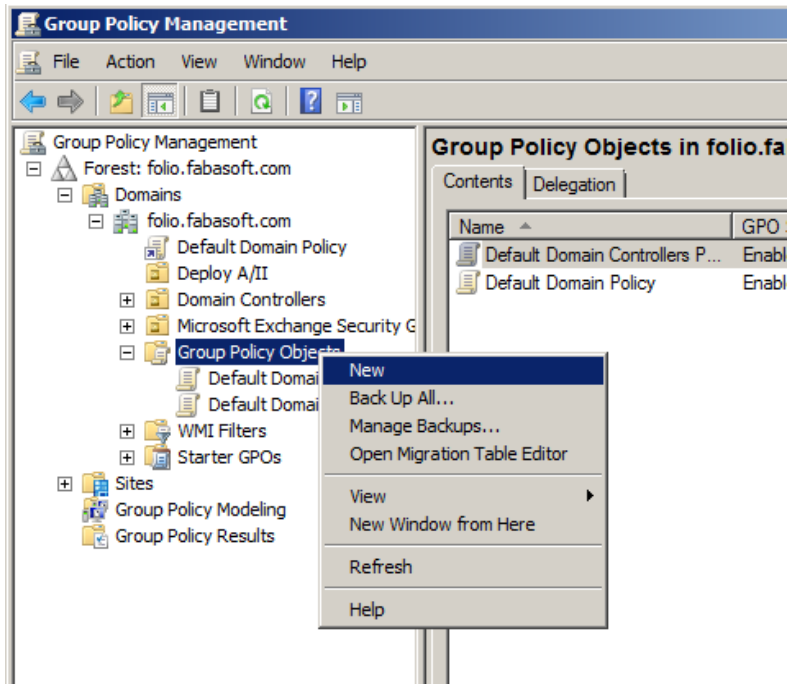


3. Select the organizational unit where these users should be moved to and click "OK".

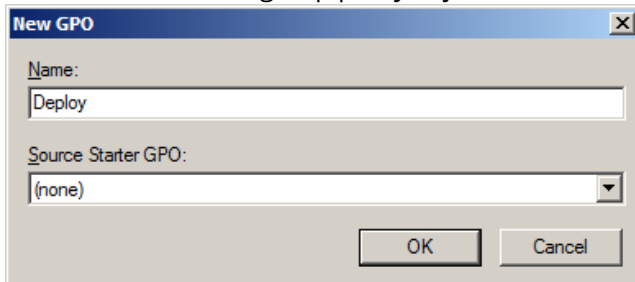


4. Open the Group Policy Management.

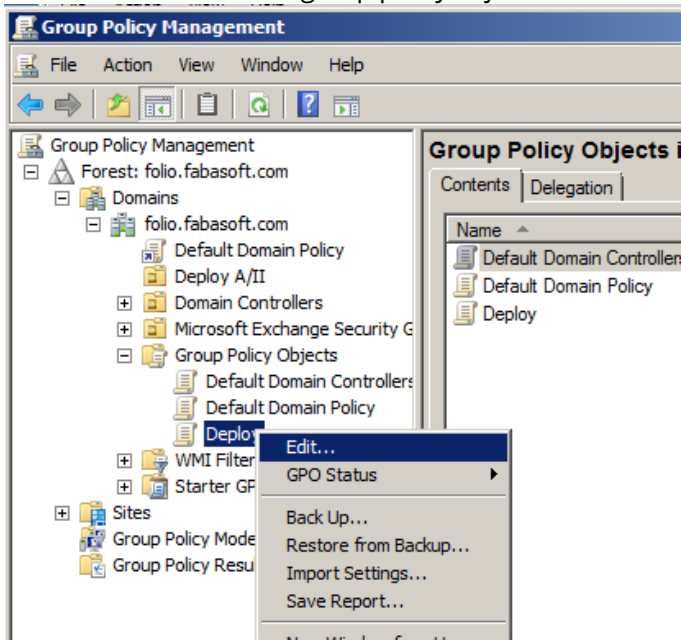
5. Navigate to "Group Policy Objects" and create a new group policy object by selecting "New" from the context menu.



6. Drag the new group policy object onto the organizational unit to apply these settings to this organizational unit.
7. Enter a name for the group policy object and click "OK".



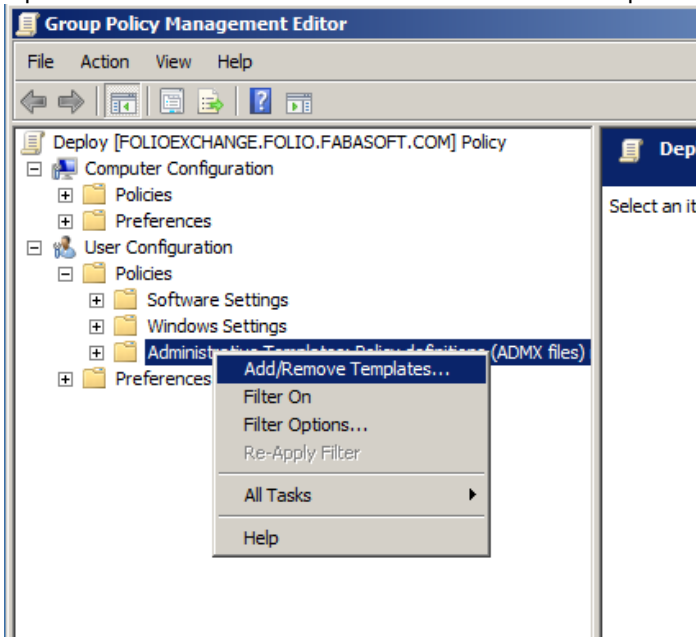
- Click "Edit" from the new group policy object's context menu.



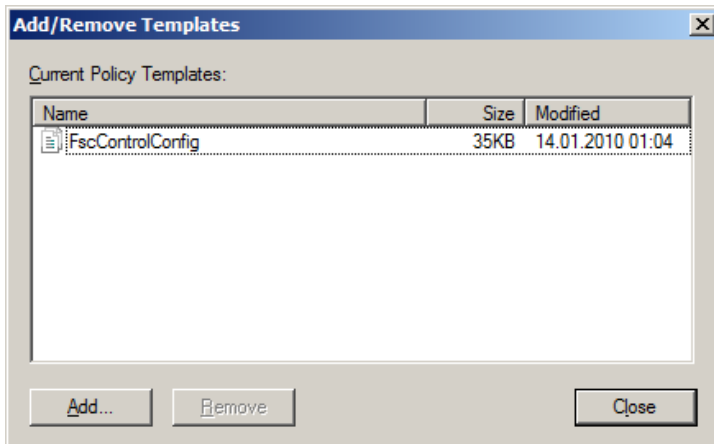
The "Group Policy Management Editor" is opened.

In the Group Policy Management Editor an additional policy template (ADM file) has to be added. Policy templates are used to distribute Microsoft Windows Registry settings on clients. They provide a user interface for the administrator to enable the editing of values in the Microsoft Windows Registry settings. The user configuration administrative templates affect users and groups and are applied to the `HKEY_CURRENT_USER` entry of the assigned users. To add and configure the administrative template, perform the following steps:

- In the "Group Policy Management Editor" navigate to the "Administrative Templates" node of the "User Configuration" root folder.
- Open the context menu and click "Add/Remove Templates".

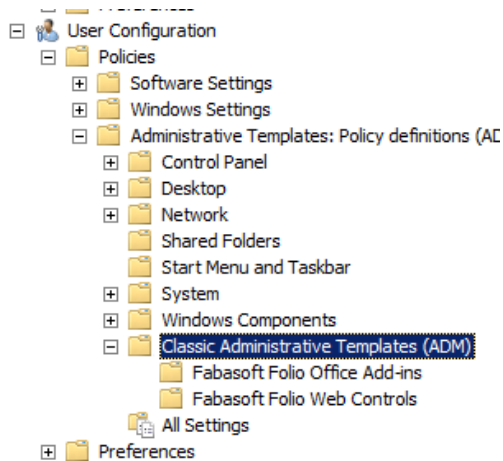


- Click "Add" to browse for the administrative template `FscControlConfig.adm`, which is provided in the setup directory of Fabasoft Folio `Setup\ComponentsWeb\Client`.



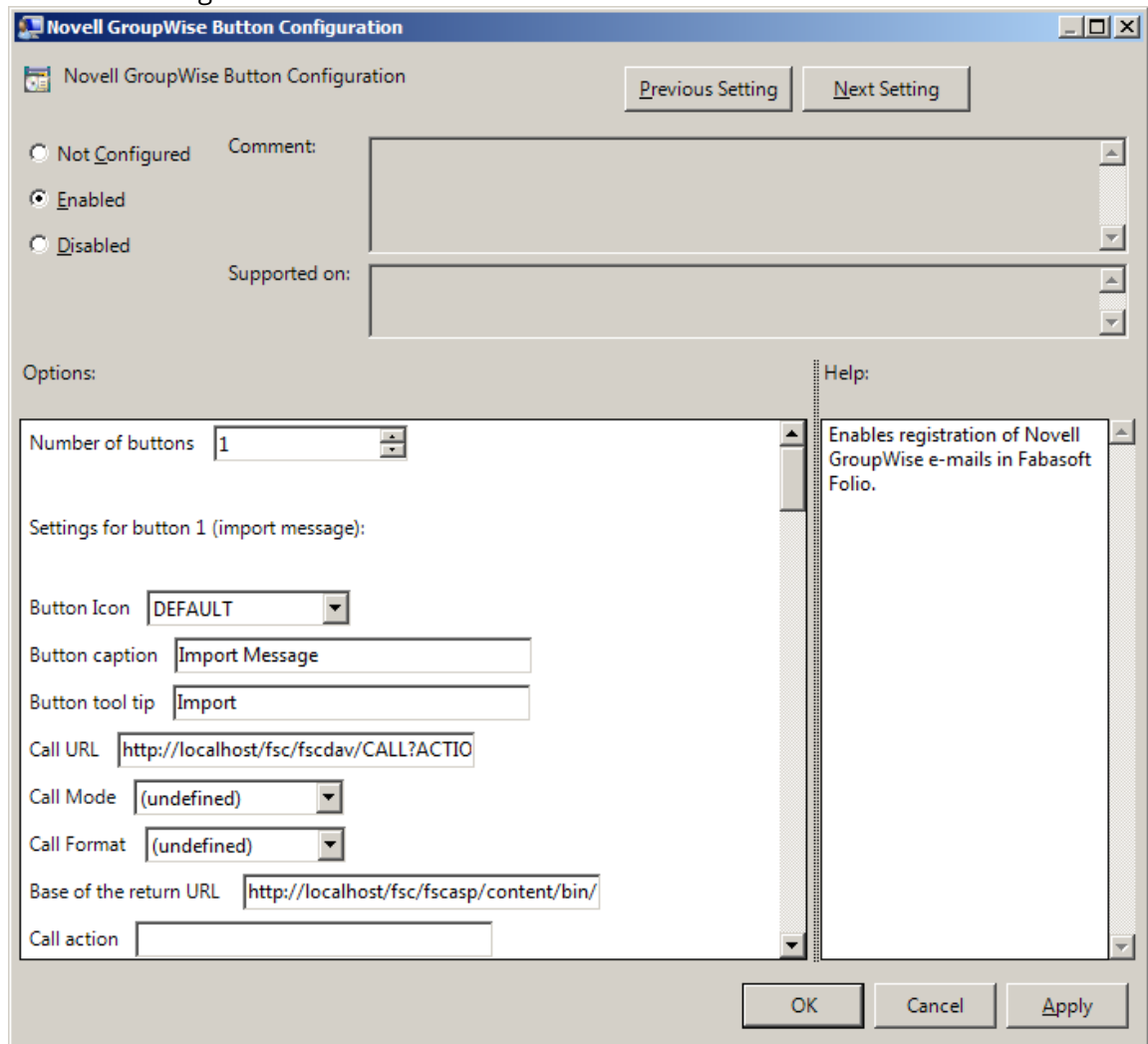
After importing the template, additional subfolders are displayed in the “Classic Administrative Templates (ADM)” folder of the “User Configuration”:

- Fabasoft Folio Office Add-ins
- Fabasoft Folio Web Controls



4. Navigate to the “Fabasoft Folio Office Add-ins” folder. This folder contains among others the “Novell GroupWise Button Configuration” policy.
5. Open the context menu of the “Novell GroupWise Button Configuration” policy and click “Edit”.
6. Click *Enabled*. It is possible to configure up to four buttons, where only the name of the web server, the name of the virtual directory and the address of the action that should be called

have to be changed.



Additional information about provided Fabasoft Folio actions can be found in chapter 8 “Provided Fabasoft Folio Actions”.

Additional descriptions of the parameters can be found in chapter 6 “Configuration by Editing the Microsoft Windows Registry Manually”.

6 Configuration by Editing the Microsoft Windows Registry Manually

In the Microsoft Windows Registry of the client several values have to be set. The individual values (each string values) can be found in:

```
HKEY_Current_User\Software\Fabasoft\Fabasoft Components GroupWise Extension
```

If the `Fabasoft Components GroupWise Extension` key is not available it can be created manually. Open the context menu of the `Fabasoft` key and click “New” > “Key”. Name the key `Fabasoft Components GroupWise Extension`.

Create the necessary entries (each of type “String Value”) in this key. The following key values are available ([2,3,4] refers to the particular button, if several buttons are inserted):

BUTTONS	<p>Defines the number of buttons. If this value is missing, the default value is 1.</p>
CALLURL [2, 3, 4]	<p>The CALLURL is a WebDAV URL that is called when a Novell GroupWise button is clicked.</p> <p>The input parameter contains the e-mail file, attachments (depends on the setting CALLMODE) or an XML file.</p> <p>If CALLFORMAT=XML is defined, the optional output parameter can hold an XML file with a node, which represents the returnurlsuffix for the return URL. Normally this is a vApp.</p> <p>Example:</p> <pre>http://<computername>/<virtual directory>/fscdav/CALL? ACTION=COO.1.1.1.7283</pre> <p>In this case the option CALLURL contains the object address of the <i>Import message from Novell GroupWise</i> action and so the vApp for importing is called. A connection is established to the server and the virtual directory specified in the URL. Fabasoft Folio provides several actions. See chapter 8 "Provided Fabasoft Folio Actions" to get an overview.</p> <p>Example for the content of an XML file as return value:</p> <pre><returnurlsuffix> dx=COO.1.1001.1.32490&amp; ax=COO.....&amp; sys_object=COO.....&amp; sys_selobjects=COO.....&amp; commit=true&amp; ru=javascript:close() </returnurlsuffix></pre>
CALLMODE [2, 3, 4]	<p>CALLMODE defines which files are passed to the CALLURL.</p> <p>CALLMODE=Mail The e-mail file is passed to the CALLURL (default setting, if nothing is specified).</p> <p>CALLMODE=Attachments The attachments of the e-mail are passed to the CALLURL (each is passed separately).</p> <p>The schema used can be found in the description of the CALLFORMAT entry, where all nodes except "File" (which contains the body text) are filled.</p> <p>CALLMODE=Both The e-mail file is passed followed by the e-mail's attachments.</p> <p>Note: If the CALLFORMAT parameter contains the value XML, the CALLMODE=BOTH and CALLMODE=MAIL settings are leading to the same result.</p>
CALLFORMAT [2, 3, 4]	<p>CALLFORMAT=XML</p> <p>If the value XML is entered, the file is transferred in an XML file based on the XML schema described in chapter 11.2 "XML Schema". Note:</p>

	<p>In the <code>CALLURL</code> parameter an action that is able to process a XML object should be defined.</p> <p><code>CALLFORMAT=Binary</code></p> <p>If the value <code>Mail</code> is used in the <code>CALLMODE</code> parameter only the body of the e-mail is transferred in an RTF file.</p>
<code>RETURNURLBASE [2, 3, 4]</code>	<p><code>RETURNURLBASE</code> contains the front part of the URL that is called when the action of <code>CALLURL</code> has completed. The action returns the remaining part of the URL as an output parameter.</p> <p>Example:</p> <p><code>http://<computername>/<virtual directory>/fscasp/content/bin/fscvext.dll?</code></p>

The first button is described by the entries `CALLURL`, `RETURNURLBASE` etc. For other buttons the name of the entry is extended by the number of the button, e.g. `CALLURL3` for the third button.

7 Configuration of Error Messages

Besides the configuration of the buttons, it is also possible to configure error messages, which are for example shown when no e-mail is selected. The entries can be found in

HKEY_Current_User\Software\Fabasoft\Fabasoft Components GroupWise Extension\MESSAGES

The following entries can be set:

<code>WARNINGNOTIMPORTED_TITLE [2, 3, 4]</code>	<p>Title of the message, which informs the user, that one or more objects could not be imported.</p> <p>Example:</p> <p>Warning: %u objects have not been imported</p> <p>%u is replaced by the number of objects that could not be imported.</p>
<code>WARNINGNOTIMPORTED_TEXT [2, 3, 4]</code>	<p>Text of the message, which informs the user that one or more objects could not be imported.</p> <p>This error message is displayed, when objects not of type e-mail were selected.</p> <p>Example:</p> <p>The following objects could not be imported: %s</p> <p>%s is replaced by the names of the objects that could not be imported.</p>
<code>ERRORNOMAILS_TITLE [2, 3, 4]</code>	<p>Title of the message, which informs the user that no e-mail was selected.</p> <p>Example:</p>

	Error: no e-mails selected
ERRORNOMAILS_TEXT [2, 3, 4]	Text of the message, which informs the user that no e-mail was selected. Example: No e-mails have been selected for import.

8 Provided Fabasoft Folio Actions


Fabasoft Folio offers the following action for the configuration of Novell GroupWise buttons:

<i>Import message from Novell GroupWise</i> (FSCGROUPWISE@1.1:ImportGroupWiseMail) Object address: COO.1.1.1.7283	This action provides the possibility to assign an e-mail to an existing business case. For the use of this action only the following registry entries need to be specified: BTNCAPTIONTEXT=Import Message BUTTONS=1 CALLURL=http://<computername>/<virtual directory>/fscdav/CALL?ACTION=COO.1.1.1.7283 RETURNURLBASE=http://<computername>/<virtual directory>/fscasp/content/bin/fscvext.dll?
---	--

It is possible to specify own actions for each button. In this case make sure that the parameters `CALLFORMAT` and `CALLMODE` are set correctly so that the passed object can be processed by the respective action.

9 Configuration of the Novell GroupWise Client

To be able to use Novell GroupWise buttons, further settings are not necessary. After the installation of the MSI package and a corresponding configuration the buttons can be used.

Note: If the Novell GroupWise buttons are not visible, click the  button, to display additional buttons. Select the button from this menu. If a second toolbar is available, the Novell GroupWise buttons may be displayed by moving the second toolbar into another line.

9.1 Configuration of the Toolbar and the Buttons

It is possible to define values in the Microsoft Windows Registry that affect the label of the buttons. According to the used application these values are read from the Microsoft Windows Registry.

The following values can be set:

BTNICON [2, 3, 4]	This parameter defines the icon that is displayed on the button.
BTNCAPTIONTEXT [2, 3, 4]	This parameter defines the text that is displayed on the button.

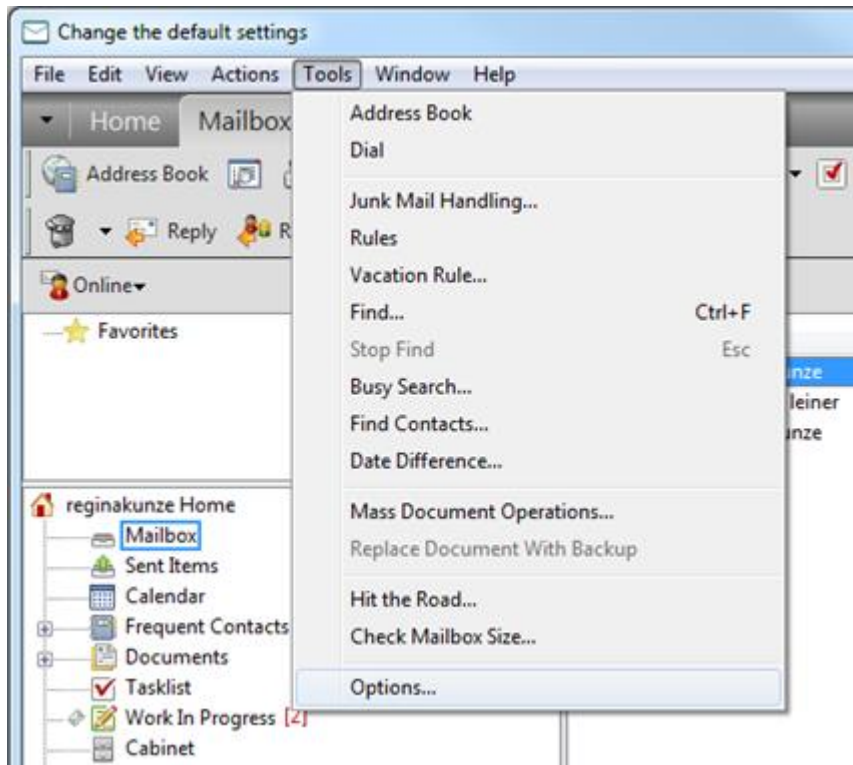
BTNTOOLTIPTEXT [2, 3, 4]

This parameter defines the tool tip text of the button.

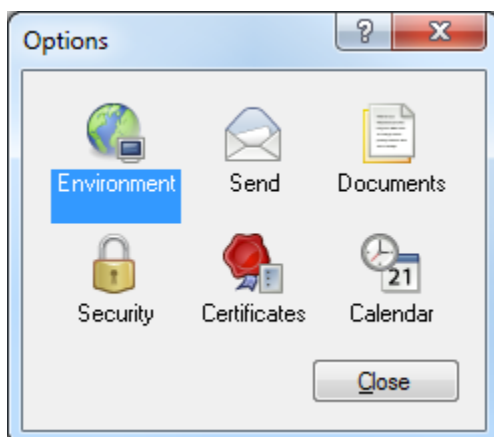
10 Configuration of Drag-and-Drop Import

Using Microsoft Internet Explorer it is possible to import e-mails from Novell GroupWise into Fabasoft Folio via drag-and-drop. Perform the following steps:

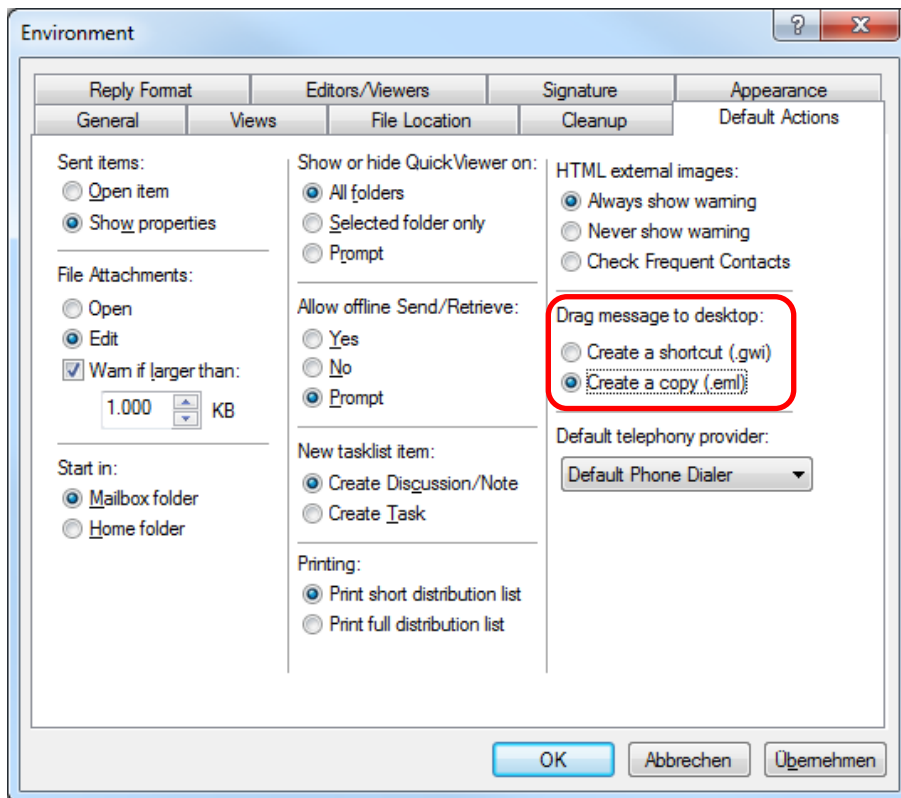
1. On the "Tools" menu click "Options".



2. Double-click "Environment".



3. On the "Default Actions" tab under "Drag message to desktop:" select "Create a copy (.eml)" and click "OK" to save the changes.



11 Appendix

11.1 Use of HTTPS

If the HTTPS protocol is used, the values in the Microsoft Windows Registry of the client have to be modified accordingly. The entries `CALLURL[2,3,4]` and `RETURNURLBASE[2,3,4]` are affected.

Example:

```
https://<computername>/<virtual directory>/fscdav/CALL?ACTION=COO.1.1.1.7283
```

Furthermore, the certificates used have to be installed on the client.

11.2 XML Schema

```
<?xml version="1.0" encoding="utf-8" ?>
<xs:schema targetNamespace="urn:schemas.fabasoft.com/MailImport"
  elementFormDefault="qualified" xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:ns="urn:schemas.fabasoft.com/MailImport">
  <xs:element name="MailList">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="ns:Mail" minOccurs="1" maxOccurs="unbounded"/></xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="Mail">
    <xs:complexType>
```

```

<xs:sequence>
  <xs:element name="Sent" type="xs:string"></xs:element>
  <xs:element name="Received"
    type="xs:string"></xs:element>
  <xs:element name="File" minOccurs="0">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="Name" type="xs:string"></xs:element>
        <xs:element name="Extension" type="xs:string"></xs:element>
        <xs:element name="Content" type="xs:base64Binary"></xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="Sender">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="Name" type="xs:string" minOccurs="0">
          </xs:element>
        <xs:element name="Address" type="xs:string"></xs:element>
        <xs:element name="Type" type="xs:string" minOccurs="0"></xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="To" type="xs:string"></xs:element>
  <xs:element name="Cc" type="xs:string"></xs:element>
  <xs:element name="Bcc" type="xs:string"></xs:element>
  <xs:element name="Attachments" minOccurs="0" maxOccurs="unbounded">
    <xs:complexType>
      <xs:choice>
        <xs:sequence>
          <xs:element name="Name" type="xs:string"></xs:element>
          <xs:element name="Extension" type="xs:string"></xs:element>
          <xs:element name="Content" type="xs:base64Binary"></xs:element>
        </xs:sequence>
        <xs:element ref="ns:Mail"></xs:element>
      </xs:choice>
    </xs:complexType>
  </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>

```