



# White Paper

## Fabasoft Integration for Novell GroupWise

Fabasoft Folio 2022

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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.

## 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 2019 Standard
- Novell GroupWise 2014

## 3 Prerequisites

The Fabasoft Folio Client (`Setup\ComponentsBase\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\ComponentsBase\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 by Editing the Microsoft Windows Registry

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	Defines the number of buttons. If this value is missing, the default value is 1.
CALLURL [2, 3, 4]	<p>The <code>CALLURL</code> 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 <code>CALLMODE</code>) or an XML file.</p> <p>If <code>CALLFORMAT=XML</code> is defined, the optional output parameter can hold an XML file with a node, which represents the <code>returnurlsuffix</code> for the return URL. Normally this is a vApp.</p> <p><b>Example:</b></p> <pre>http://&lt;computername&gt;/&lt;virtual directory&gt;/fscdav/CALL?ACTION=COO.1.1.1.7283</pre> <p>In this case the option <code>CALLURL</code> 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 7 "Provided Fabasoft Folio Actions" to get an overview.</p> <p>Example for the content of an XML file as return value:</p> <pre>&lt;returnurlsuffix&gt; dx=COO.1.1001.1.32490&amp;amp; ax=COO.....&amp;amp; sys_object=COO.....&amp;amp; sys_selobjects=COO.....&amp;amp; commit=true&amp;amp; ru=javascript:close() &lt;/returnurlsuffix&gt;</pre>
CALLMODE [2, 3, 4]	<p><code>CALLMODE</code> defines which files are passed to the <code>CALLURL</code>.</p> <p><code>CALLMODE=Mail</code> The e-mail file is passed to the <code>CALLURL</code> (default setting, if nothing is specified).</p> <p><code>CALLMODE=Attachments</code> The attachments of the e-mail are passed to the <code>CALLURL</code> (each is passed separately).</p> <p>The schema used can be found in the description of the <code>CALLFORMAT</code> entry, where all nodes except "File" (which contains the body text) are filled.</p> <p><code>CALLMODE=Both</code> The e-mail file is passed followed by the e-mail's attachments.</p> <p><b>Note:</b> If the <code>CALLFORMAT</code> parameter contains the value <code>XML</code>, the <code>CALLMODE=BOTH</code> and <code>CALLMODE=MAIL</code> settings are leading to the same result.</p>
CALLFORMAT [2, 3, 4]	<p><code>CALLFORMAT=XML</code></p> <p>If the value <code>XML</code> is entered, the file is transferred in an XML file based on the XML schema described in chapter 10.2 "XML Schema". <b>Note:</b></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><b>Example:</b></p> <p><code>http://&lt;computername&gt;/&lt;virtual directory&gt;/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.

## 6 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><b>Example:</b></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><b>Example:</b></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><b>Example:</b></p> <p>Error: no e-mails selected</p>

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

## 7 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.

## 8 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.

### 8.1 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.

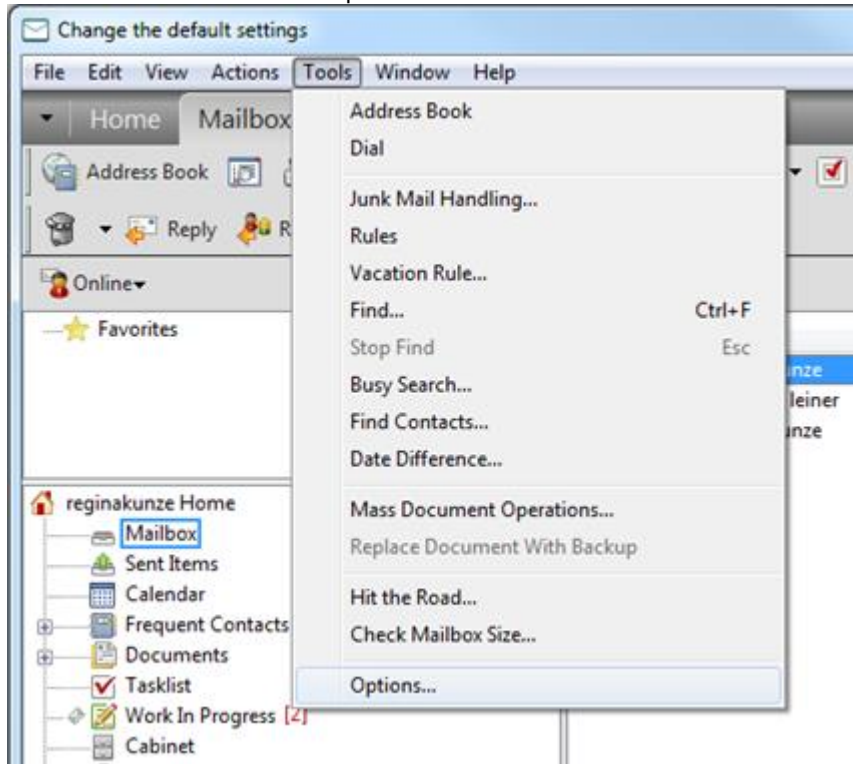
The following values can be set:

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.

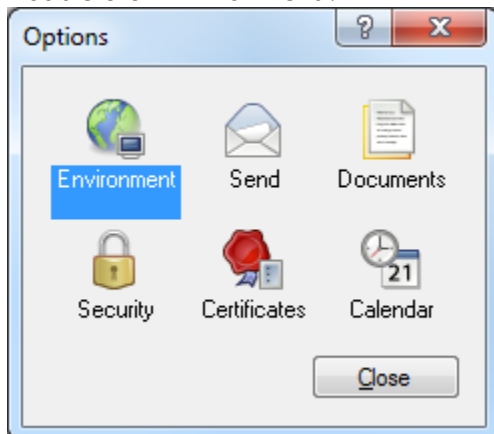
## 9 Configuration of Drag-and-Drop Import

It is possible to import e-mails from Novell GroupWise into Fabasoft Folio via drag-and-drop. To configure the drag-and-drop functionality, proceed as follows:

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

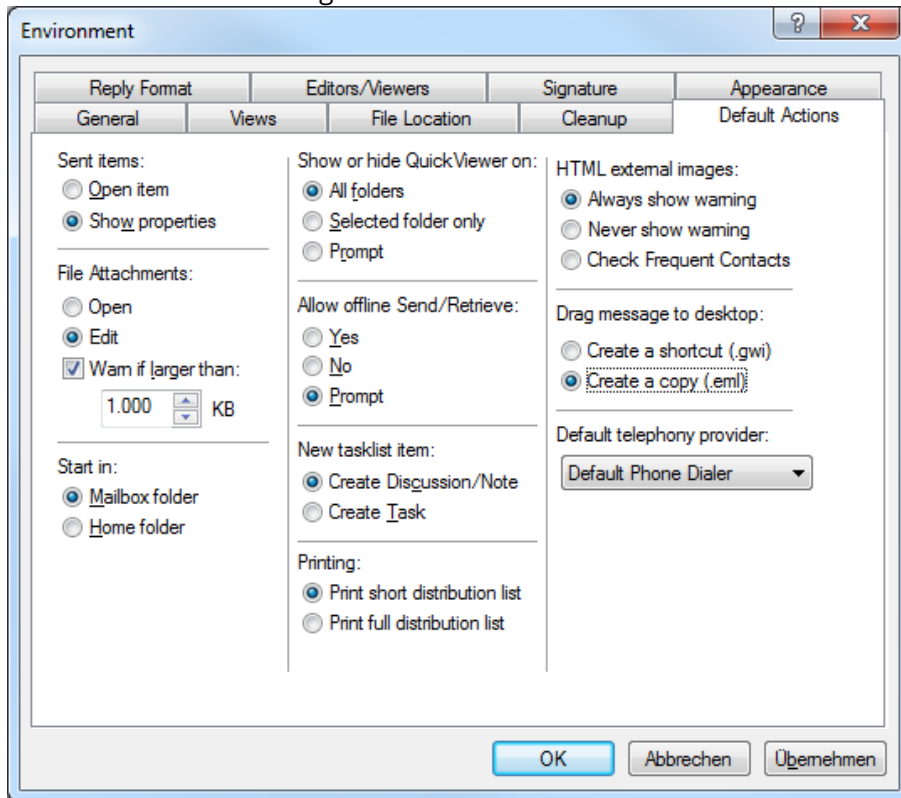


2. Double-click "Environment".





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



## 10 Appendix

### 10.1 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.

### 10.2 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>

```