

White Paper

Fabasoft Integration for CalDAV

Fabasoft Folio 2025 Update Rollup 1

Copyright © Fabasoft R&D GmbH, Linz, Austria, 2025.

All rights reserved. All hardware and software names used are registered trade names and/or registered trademarks of the respective manufacturers.

No rights to our software or our professional services, or results of our professional services, or other protected rights can be based on the handing over and presentation of these documents.

Contents

1 Introduction	4
2 Software Requirements	4
3 Installation of the Fabasoft Integration for CalDAV	4
4 Configuration of the Fabasoft Integration for CalDAV	4
5 Configuration of Additional Object Classes for CalDAV	4
5.1 Restriction for allowed object classes	5
5.2 Configuration for CalDAV	5
6 Configuration of Apple iPad	9
7 Configuration of Mozilla Thunderbird and Lightning	12
8 Downloading Calendars and Calendar Entries as ICS Files	15
9 Known Limitations	16
9.1 Synchronization with Thunderbird	16

1 Introduction

Fabasoft products allow the integration of CalDAV. This document describes the installation and configuration of Fabasoft Integration for CalDAV.

2 Software Requirements

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

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

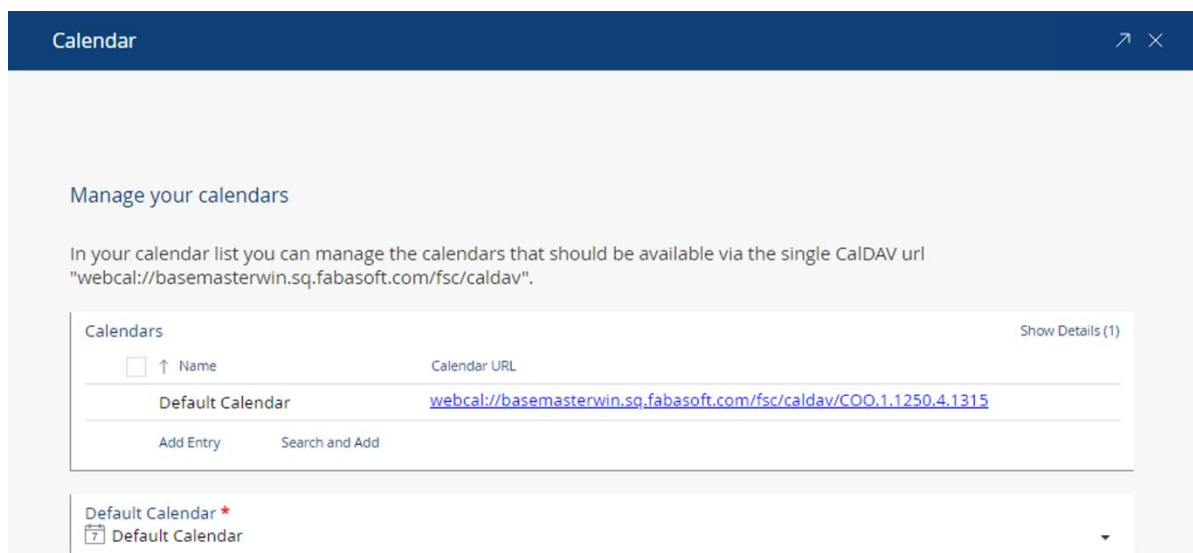
3 Installation of the Fabasoft Integration for CalDAV

The Fabasoft Integration for CalDAV will be installed automatically during the installation of the Fabasoft Folio Domain.

Some CalDAV clients require so-called ".well-known" URIs (see <https://tools.ietf.org/html/rfc5785> and <https://tools.ietf.org/html/rfc6764>) for specific client use-cases (e.g. Apple Calendar for reminders). Requests to `/.well-known/caldav` must be redirected to `/<fabasoft-folio-vdir>/caldav` using an HTTP redirect. The required redirect should be configured in the load balancer of the installation.

4 Configuration of the Fabasoft Integration for CalDAV

Each user in the Fabasoft Folio Domain can have multiple calendars, which are listed in the user's calendar list whereas one calendar will be determined as the default one. The calendar list can be accessed using the menu entry *Calendar* in the "Advanced Settings" menu.



5 Configuration of Additional Object Classes for CalDAV

It is possible to use other Fabasoft Folio object classes together with the Fabasoft Integration for CalDAV.

5.1 Restriction for allowed object classes

Every Fabasoft Folio object class that is to be allowed as a calendar, event or task has to be explicitly allowed in the respective attributes:

- Fabasoft Folio object classes for use as a calendar: `FSCCALDAV@1.1001:calendars`
- Fabasoft Folio object classes for use as a task: `FSCCALDAV@1.1001:todos`
- Fabasoft Folio object classes for use as an event: `FSCCALDAV@1.1001:events`

The configuration is explained here with the attribute `FSCCALDAV@1.1001:events`, where the Fabasoft Folio object classes *Worklist* and *Activity Instance* are allowed, but may not be created in the list of events of a calendar.

Class	Software Component	Creatable
FSCCALDAV@1.1001:VEvent	FSCCALDAV@1.1001	✓

Note: Your Software Component has to allow the required Fabasoft Folio object classes. Also, whether a new object of this class can be created or not.

5.2 Configuration for CalDAV

The configuration is explained here by means of the Fabasoft Folio object classes *Worklist* and *Activity Instance*.

1. Create a new *CalDAV Configuration* in an *Administration Tool*.

Object Class	Expression for Events	Expression for Tasks	Software Component
1 Worklist		%%SECTION "FSCFOLI...	Folio Preconfigurat...
2 List of Automated Tasks		%%SECTION "FSCFOLI...	Folio Preconfigurat...
3 Follow-Ups	%%SECTION "FSCNOTIFICATION...		Notifications

Object Class	Creation in Calendar not Allowed	Mapping for CalDAV Attributes	Software Component
1 Activity Instance	Yes	Mapping for CalDAV Attributes, ... [4]	Folio Preconfigurat...
2 Automated Task	Yes	Mapping for CalDAV Attributes, ... [4]	Folio Preconfigurat...
3 Follow-Up	Yes	Mapping for CalDAV Attributes, ... [6]	Notifications

In the aggregate *Configuration for Calendars* Fabasoft Folio object classes are configured which can be used as calendars (e.g. *Worklist*).

In the aggregate *Configuration for Calendar Entries* Fabasoft Folio object classes are configured which can be used as events or tasks (e.g. *Activity Instance*).

2. Create a new *Configuration for Calendars*.
3. In *Object Class* select *Worklist*.

4. In the expressions fields it is possible to define two different ways how the list of objects for events and tasks will be created. The expressions must return an object list. In this case you can use the properties *Worklist Items* (COOWF@1.1:worklistitems) and *Suspended/Pending Items* (COOWF@1.1:worklistsuspitems). Click "Next".
5. Create a new *Configuration for Calendar Entries*.

6. In *Object Class* select *Activity Instance*.

FSSCALDAV@1.1001:DefaultCalDAVConfiguration (CalDAV Configuration): Edit Role ↗ ✕

Configuration for Calendar Entries (1 of 3)

Configuration for Calendar Entries

Object Class *

☐ Activity Instance

☒ Creation in Calendar not Allowed

Mapping for CalDAV Attributes * Show Details (4)

<input type="checkbox"/>	CalDAV Attribute	Expression for CalDAV Attribute Value
1	Subject	%%SECTION "FSCFOLIOPRECONFIG@1.1001 caldavconfig.ducx-om"; ... [3]
2	Start Date	%%SECTION "FSCFOLIOPRECONFIG@1.1001 caldavconfig.ducx-om"; ... [5]
3	Due Date (Task Only)	%%SECTION "FSCFOLIOPRECONFIG@1.1001 caldavconfig.ducx-om"; ... [6]
4	Description	%%SECTION "FSCFOLIOPRECONFIG@1.1001 caldavconfig.ducx-om"; ... [3]

[Add Entry](#)

Software Component

☐ Folio Preconfiguration

7. Create a Mapping of CalDAV attributes to Fabasoft Folio properties

FSSCALDAV@1.1001:DefaultCalDAVConfiguration (CalDAV Configuration): Edit Role ↗ ✕

Configuration for Calendar Entries (1 of 3) / Mapping for CalDAV Attributes (1 of 4)

Configuration for Calendar Entries

Mapping for CalDAV Attributes

CalDAV Attribute

Subject

Expression for CalDAV Attribute Value

```
42 %%SECTION "FSCFOLIOPRECONFIG@1.1001 caldavconfig.ducx-om";
43 %%LINE 44;
44 cooobj.objname + " (" + strjoin(cooobj.COOWF@1.1:actinstprocinst.COOWF@1.1:procinstobject.objname, ", "
```


FSSCALDAV@1.1001:DefaultCalDAVConfiguration (CalDAV Configuration): Edit

Role

Configuration for Calendar Entries (1 of 3) / Mapping for CalDAV Attributes (2 of 4)

Configuration for Calendar Entries

Mapping for CalDAV Attributes

CalDAV Attribute

Start Date

Expression for CalDAV Attribute Value

```

48 %%SECTION "FSCFOLIOPRECONFIG@1.1001 caldavconfig.ducx-om";
49 %%LINE 50;
50 coobj.COOWF@1.1:actinstsubmitdeadline ? coobj.COOWF@1.1:actinstsubmitdeadline :
51 coobj.COOWF@1.1:actinststartedat ? coobj.COOWF@1.1:actinststartedat :
52 coobj.COOWF@1.1:actinstreceivedat;

```

FSSCALDAV@1.1001:DefaultCalDAVConfiguration (CalDAV Configuration): Edit

Role

Configuration for Calendar Entries (1 of 3) / Mapping for CalDAV Attributes (3 of 4)

Configuration for Calendar Entries

Mapping for CalDAV Attributes

CalDAV Attribute

Due Date (Task Only)

Expression for CalDAV Attribute Value

```

56 %%SECTION "FSCFOLIOPRECONFIG@1.1001 caldavconfig.ducx-om";
57 %%LINE 58;
58 coobj.COOWF@1.1:actinstenddeadline ? coobj.COOWF@1.1:actinstenddeadline :
59 coobj.COOWF@1.1:actinstsubmitdeadline ? coobj.COOWF@1.1:actinstsubmitdeadline :
60 coobj.COOWF@1.1:actinststartedat ? coobj.COOWF@1.1:actinststartedat :
61 coobj.COOWF@1.1:actinstreceivedat;

```

FSSCALDAV@1.1001:DefaultCalDAVConfiguration (CalDAV Configuration): Edit

Role

Configuration for Calendar Entries (1 of 3) / Mapping for CalDAV Attributes (4 of 4)

Configuration for Calendar Entries

Mapping for CalDAV Attributes

CalDAV Attribute

Description

Expression for CalDAV Attribute Value

```

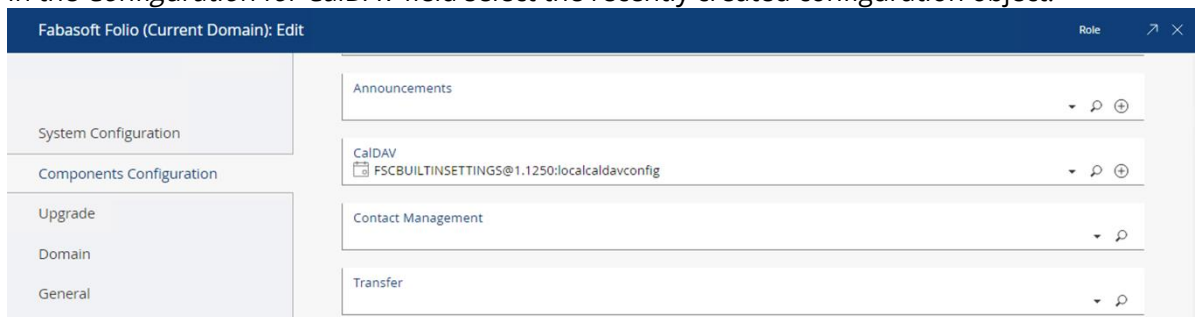
65 %%SECTION "FSCFOLIOPRECONFIG@1.1001 caldavconfig.ducx-om";
66 %%LINE 67;
67 #FSCFOLIOPRECONFIG@1.1001:StrCalDAVLink.Print(, coobj.$GetClass().$GetName(cootx), coobj.$GetName(coo

```

The type of mapped Fabasoft Folio properties must match the type of CalDAV attributes:

- Subject: String
- Location: String

- Start Date: Date/Time
 - End Date: Date/Time
 - Due Date: Date/Time
 - Description: Sting or String list
 - Recurrence Rule: property must be of the type `FSCCALDAV@1.1001:RecurrenceRule`
 - Attendees: property must be of the type `FSCCALDAV@1.1001:Attendee`
 - All Day: Boolean
8. Click “Next” to save the changes.
 9. After the configuration is done add the configuration to the *Current Domain*. Open the properties of the *Current Domain* object in edit mode.
 10. Click the “Components Configuration” tab.
 11. In the *Configuration for CalDAV* field select the recently created configuration object.



12. Click “Next” to save the changes.
13. Now you can add *Worklists* to calendar lists and Activity Instances to Calendars.

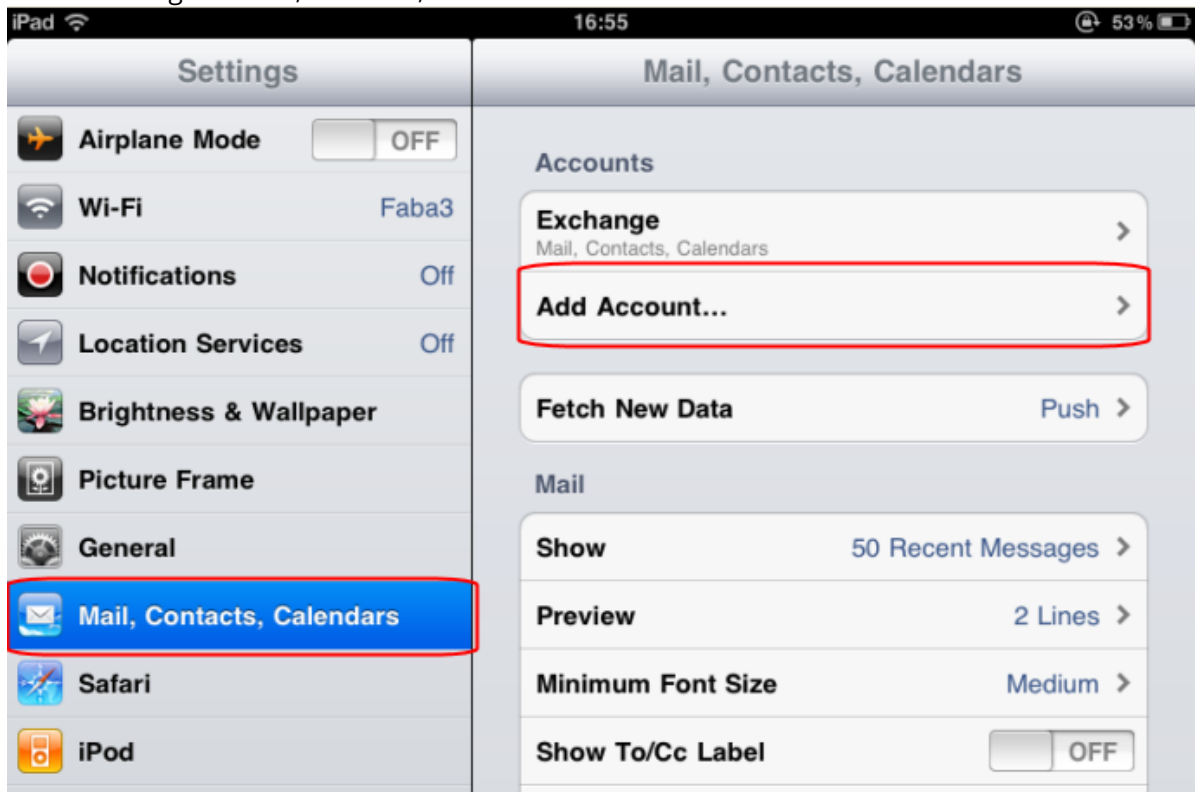
To access the Worklist in a calendar client use an URL with the following pattern:
`http://<webserver>/<virtual directory>/caldav/<Object address of your worklist>`

Example: `https://folio.fabasoft.com/folio/caldav/COO.1.505.3.12345`

6 Configuration of Apple iPad

Perform the following configuration steps to use the Apple iPad as calendar client:

1. Select "Settings" > "Mail, Contacts, Calendars" > "Add Account...".



2. Select „Other“ > „Add CalDAV Account“



3. Configure the Server settings.



The image shows a 'CalDAV' configuration window. It has a title bar with 'Cancel' and 'Next' buttons. The main area contains four rows of configuration fields: 'Server' with the value 'https://folio.fabasoftware.com/folio/calDav', 'User Name' with 'david.porter@fabasoftware.com', 'Password' with a masked field of dots, and 'Description' with 'https://folio.fabasoftware.com/folio/calDav'.

Server	https://folio.fabasoftware.com/folio/calDav
User Name	david.porter@fabasoftware.com
Password	••••••••
Description	https://folio.fabasoftware.com/folio/calDav

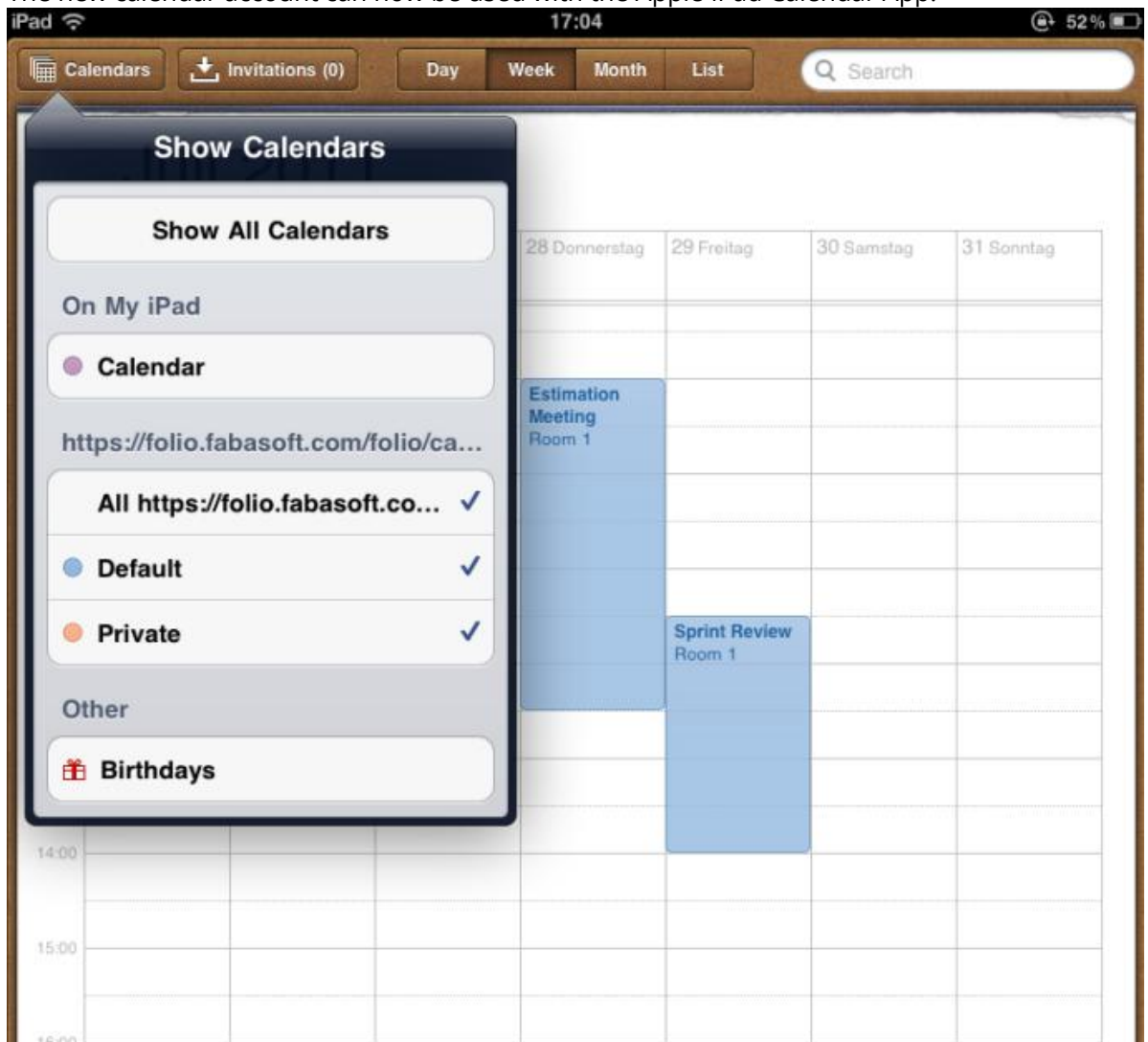
- *Server*
The Server parameter can be specified using the following pattern:
<Fabasoftware Folio Web Service URL>/<virtualdirectory>/calDav
 - *Username and Password*
Specifies the username and password of your Fabasoftware Folio account.
 - *Description*
Specify which name is used for the calendar account.
4. Tab Next to complete the configuration
 5. If the account verification failed check if all parameters are set correctly. Also check the "Advanced Settings".



The image shows an 'Advanced Settings' window. It has a title bar with a back button labeled 'https://folio.fabasoftware.com/folio/calDav' and the title 'Advanced Settings'. The main area contains three rows of configuration fields: 'Use SSL' with a toggle switch set to 'ON', 'Port' with the value '443', and 'Account URL' with 'https://folio.fabasoftware.com:443/folio/calDav'.

Use SSL	ON
Port	443
Account URL	https://folio.fabasoftware.com:443/folio/calDav

6. The new calendar account can now be used with the Apple iPad Calendar App.

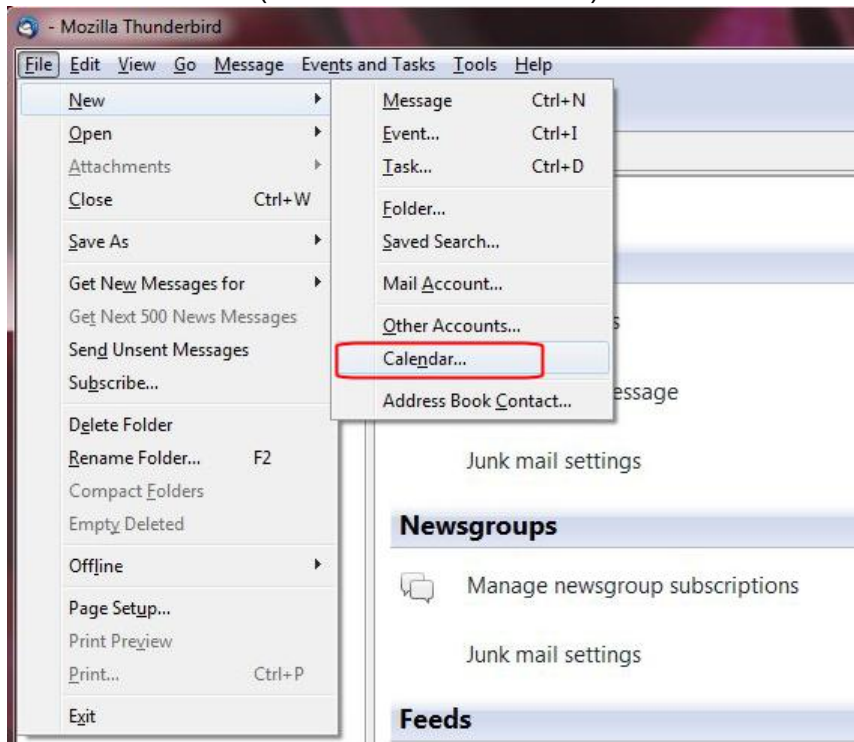


7 Configuration of Mozilla Thunderbird and Lightning

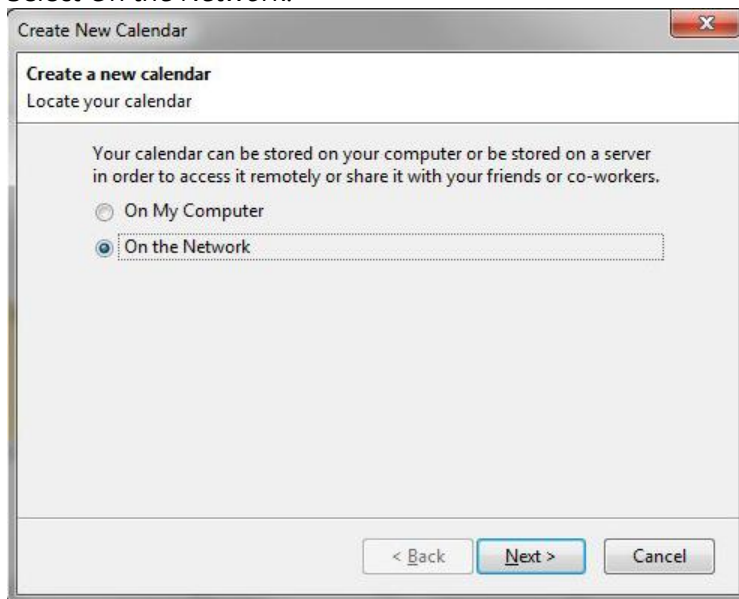
Mozilla Thunderbird and Mozilla Lightning can be downloaded from the website <http://www.mozilla.org>. Mozilla Lightning is a plug-in for Mozilla Thunderbird, which offers calendar functionality. Alternatively Mozilla Sunbird can be used as a standalone calendar client.

After the installation of Mozilla Lightning or Mozilla Sunbird perform the following steps to add a calendar, which is stored in the Fabasoft Folio Domain:

1. Add a new calendar ("File" > "New" > "Calendar").



2. Select *On the Network*.



3. Select *CalDAV* and specify the *Location*.

The screenshot shows a dialog box titled "Create New Calendar" with a subtitle "Create a new calendar". Below the subtitle is the section "Locate your calendar". The main area contains the text "Provide info about what is needed to access your remote calendar". Under "Format:", there are three radio buttons: "iCalendar (ICS)", "CalDAV" (which is selected), and "Sun Java System Calendar Server (WCAP)". Below this is a "Location:" label followed by a text input field containing the URL "https://folio.fabasoftware.com/folio/caldav/home". At the bottom of the dialog are three buttons: "< Back", "Next >", and "Cancel".

The location parameter can be specified using the following pattern:

<Fabasoft Folio Web Service URL>/caldav/<Calendar Object Address>
(e.g. <https://folio.fabasoftware.com/folio/caldav/COO.1.1530.1.1012266>)

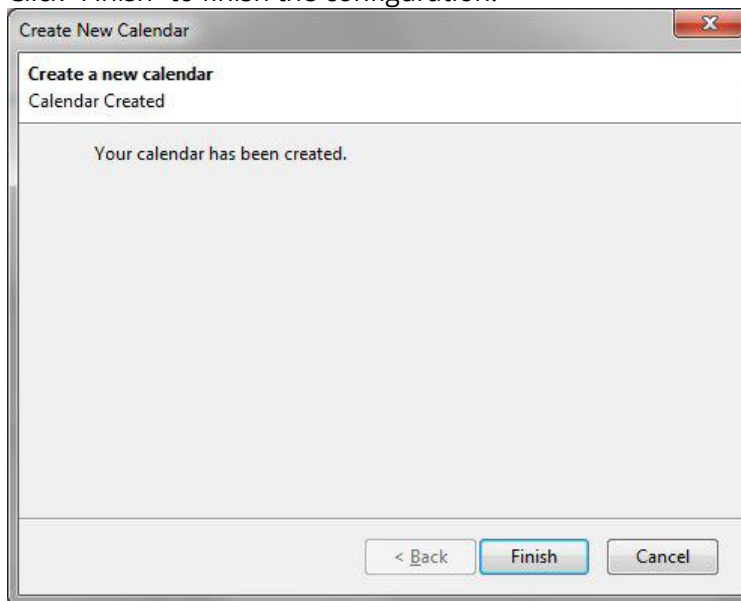
- o Fabasoft Web Service URL
Specifies the URL to the Fabasoft Folio Web Service.
- o Calendar Object Address
This parameter can be specified to access a specific calendar from the user's calendar list. The keyword "home" is reserved for the user's default calendar.

1. Specify the display name and select a color.

The screenshot shows the same "Create New Calendar" dialog box, but now on the "Customize your calendar" step. The main area contains the text "You can give your calendar a nickname and colorize the events from this calendar." Below this are four fields: "Name:" with a text input field containing "Fabasoft Folio"; "Color:" with a color selection box showing red; "Show Alarms:" with a checked checkbox; and "E-Mail:" with a dropdown menu showing "None". At the bottom are the same three buttons: "< Back", "Next >", and "Cancel".

Note: The display name, the selected color and *Show Alarms* are client settings and therefore only stored on the client.

2. Click "Finish" to finish the configuration.



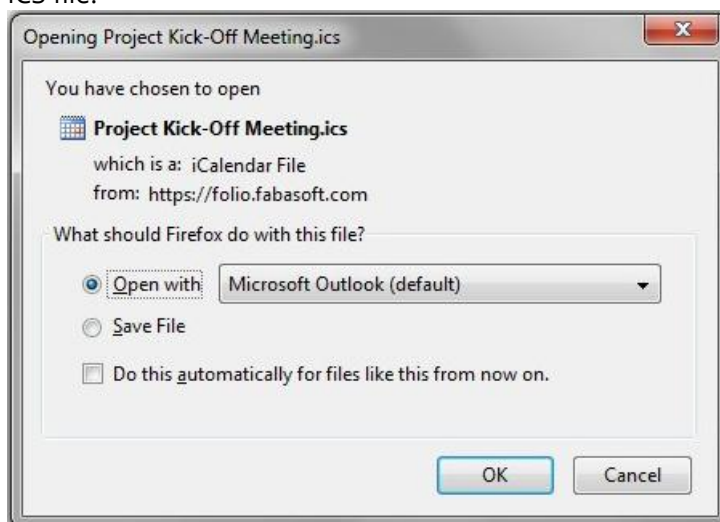
Note: If the specified calendar does not exist, it will be created automatically.

8 Downloading Calendars and Calendar Entries as ICS Files

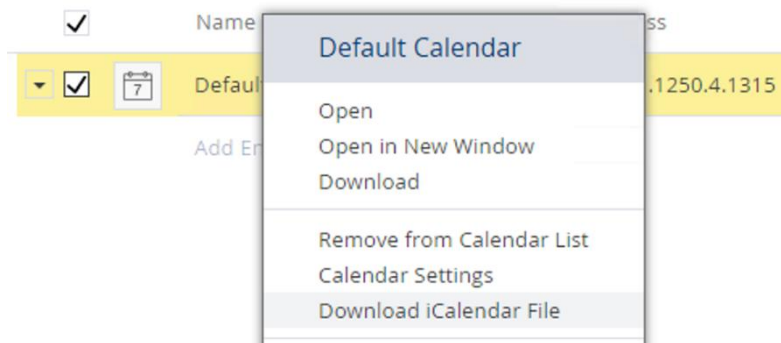
The Fabasoft Integration for CalDAV provides a friendly URL which allows downloading calendars or calendar entries as files compliant to the iCS format to be opened with Microsoft Office Outlook for instance. Therefore a URL with the following pattern can be used:

<Fabasoft Folio Web Service URL>/ics/<object address>/<download name>
(e.g. <https://folio.fabasoft.com/folio/ics/COO.1.1530.1.1012266/EventTitle.ics>)

- **Fabasoft Web Service URL**
Specifies the URL to the Fabasoft Folio Web Service.
- **Object Address**
Specifies the Fabasoft Folio object address of the calendar, event entry or task object.
- **Download Name**
This optional parameter will be recognized from the web browser as the file name of the ICS file.



To perform this action it is also possible to use the context menu action *Download ICS File*, which can be executed on calendars, event entries and tasks.



9 Known Limitations

The Fabasoft integration for CalDAV has following limitations.

9.1 Synchronization with Thunderbird

When synchronizing with Mozilla Thunderbird, tasks are not synchronized if they contain date information.