

# Creating a file with calendar invitation - ics file in Confluence and sending it via email with ConfiForms



In this tutorial we will create an attachment of ICS format (calendar invitation) which we will then upload to original ConfiForms entry and then will use it (include as attachment) in the email sent to user



If you are new to ConfiForms, please take a few minutes to read the [Basic concepts](#) Guide, or go through the video tutorial on that page. 😊

Let's start with describing the building blocks. We will have a form with 5 fields

The screenshot shows the ConfiForms configuration interface. At the top, a header bar reads "CONFI: ConfiForms Form | formName = f". Below this, there are five stacked configuration blocks, each starting with "CONFI: ConfiForms Field Definition". The first block has "fieldName = fileAttach | fi...". The second has "fieldName = eventFileName | ...". The third has "fieldName = eventTitle | fi...". The fourth has "fieldName = dt | fieldLabel...". The fifth has "fieldName = eventDescriptio...". At the bottom of these blocks is a "CONFI: ConfiForms Registration Control" block, which contains a large empty text area.

- fileAttach - of type "File" to hold a created "on-the-fly" file
- eventFileName - text field to ask for a file name to be used for naming the created "on-the-fly file"
- eventTitle - text field to hold title of the event
- dt - datetime interval field type to define when the event occurs
- eventDescription is a textarea to hold the description of the event

The form looks like this when in view mode:

## Registration

eventFileName

Event Title

When

MMM dd, yyyy HH:mm



- MMM dd, yyyy HH:mm



eventDescription

+

Save Close

"File" field is hidden with ConfiForms Field Definition Rules macro like this:

## Edit 'ConfiForms Field Definition Rules' Macro

Name of the field you want to track  
(optional for validation rules)

Condition

id:

Action will be executed when condition is met. [Same syntax as in filters](#) The scope is current entry/record (for dataset validation the scope is all records). You can reference current records fields via [entry.field\_name]

Action \*

Hide field

Action to perform

Actionable field name

fileAttach

Could be list of field names (comma separated) you want the action to be performed on

Preview

Select macro

Save Cancel

(so it is hidden for new records (the ones which do not have an "id" assigned, therefore the filter is: "id:", and the action is to hide the field: "fileAttach"))



EventFileName field is not necessary, and is here only for the demo purpose, to show how you can use it with naming your files in IFTTT  
See below...

And we have 2 IFTTT macros, which execute on record "created" event

- creates a file based on the template given
- sends email with this file (more on sending emails from ConfiForms you can find here: [Sending an email with attachments from Confluence with ConfiForms app](#), [Creating embedded form with ConfiForms to send emails directly from Confluence](#))

We will look in more details at 1st IFTTT macro which creates the file and uploads it as attachment to the record

CONFI: ConfiForms IFTTT Integration Rules | event = onCreated | action = Create Attachment | title = fileAttach | who = f:5341819 |...

No Format

```
BEGIN:VCALENDAR
VERSION:2.0
PRODID:-//hacksw/handcal//NONSGML v1.0//EN
BEGIN:VEVENT
UID:[user.email]
DTSTAMP:[entry.dt.startDate.formatDate('YYYYMMDD'T'HHmmssZ')]
ORGANIZER;CN=[user.fullName]:MAILTO:[user.email]
DTSTART:[entry.dt.startDate.formatDate('YYYYMMDD'T'HHmmssZ')]
DTEND:[entry.dt.endDate.formatDate('YYYYMMDD'T'HHmmssZ')]
SUMMARY:[entry.eventTitle]
DESCRIPTION:[entry.eventDescription]
END:VEVENT
END:VCALENDAR
```

It is configured to "Create attachment" based on the template given, executes on "create" event, uses field "fileAttach" as field name the file should be attached to

Uses pattern for naming the file like this: [entry.eventFileName]\_[entry.created].ics

And references the form and page where this form is located/configured

## Edit 'ConfiForms IFTTT Integration Rules' Macro

Event \*

onCreated

Action to perform \*

Create Attachment

Fire IFTTT action only when this condition/filter is met

If empty then IFTTT action is always executed when an event is occurred. [Same syntax as in filters](#)

Field name to use as attachment storage

fileAttach

Could be constructed dynamically. You can reference record owner as [owner]; record modifier, as [modifier]; any record field as

Preview

### Visible only in PREVIEW

How to configure ConfiForms IFTTT macro

The following fields are defined in the form **f** and can be referenced from IFTTT macro body using '\${FIELD\_NAME}' (**deprecated now**) or using '[entry.field\_name]' notation. See more on [ConfiForms wiki](#) for detailed help on how to reference complex field properties

- id
- createdBy
- ownedBy
- created
- dateCreatedFormatted
- fileAttach
- eventFileName
- eventTitle
- dt
- eventDescription

Select macro

Save

Cancel

## Edit 'ConfiForms IFTTT Integration Rules' Macro

[entry.FIELD\_NAME], you can reference page watchers as [watchers]

Reference to form and its location (pageId)

f:5341819

Form and page ID separated by ":"  
(Example: formName:pageId)

Pattern for file name

[entry.eventFileName]\_[entry.create

You can use references to entry values via [entry.FIELD\_NAME]. When left empty the random file name with .txt extension will be created

File content type

When left empty plain/text will be used

Preview

### Visible only in PREVIEW

How to configure ConfiForms IFTTT macro

The following fields are defined in the form **f** and can be referenced from IFTTT macro body using '\${FIELD\_NAME}' (**deprecated now**) or using '[entry.field\_name]' notation. See more on [ConfiForms wiki](#) for detailed help on how to reference complex field properties

- id
- createdBy
- ownedBy
- created
- dateCreatedFormatted
- fileAttach
- eventFileName
- eventTitle
- dt
- eventDescription

Select macro

Save

Cancel

You are free to change the format of the file generated, in this example we were generating an ICS file based on the data we have, but you can generate any file you want based on your own template

For our ICS file the template is as follows:

```

BEGIN:VCALENDAR
VERSION:2.0
PRODID:-//hacksw/handcal//NONSGML v1.0//EN
BEGIN:VEVENT
UID:[user.email]
DTSTAMP:[entry.dt.startDate.formatDate('YYYYMMDD'T'HHmmssZ')]
ORGANIZER;CN=[user.fullName]:MAILTO:[user.email]
DTSTART:[entry.dt.startDate.formatDate('YYYYMMDD'T'HHmmssZ')]
DTEND:[entry.dt.endDate.formatDate('YYYYMMDD'T'HHmmssZ')]
SUMMARY:[entry.eventTitle]
DESCRIPTION:[entry.eventDescription]
END:VEVENT
END:VCALENDAR

```

Complete solution could be found [here](#)

```

<ac:structured-macro ac:macro-id="5bd7acb5-b878-4b87-8601-92d16c67e337" ac:name="confiorm" ac:schema-version="1">
  <ac:parameter ac:name="formName">f</ac:parameter>
  <ac:rich-text-body>
    <p>
      <br/>
      <ac:structured-macro ac:macro-id="bab26a4d-56eb-4c85-9972-4af30c66c75a" ac:name="confiorm-field-definition" ac:schema-version="1">
        <ac:parameter ac:name="fieldName">fileAttach</ac:parameter>
        <ac:parameter ac:name="fieldLabel">fileAttach</ac:parameter>
        <ac:parameter ac:name="type">file</ac:parameter>
      </ac:structured-macro>
    </p>
    <p>
      <ac:structured-macro ac:macro-id="8f0235cc-228d-4d07-8678-bc6fd2c2fcb1" ac:name="confiorm-field-definition" ac:schema-version="1">
        <ac:parameter ac:name="fieldName">eventFileName</ac:parameter>
        <ac:parameter ac:name="fieldLabel">eventFileName</ac:parameter>
        <ac:parameter ac:name="type">text</ac:parameter>
      </ac:structured-macro>
    </p>
    <ac:structured-macro ac:macro-id="75b14f19-8437-4577-b75d-59a0c0a49823" ac:name="confiorm-field-definition" ac:schema-version="1">
      <ac:parameter ac:name="fieldName">eventTitle</ac:parameter>
      <ac:parameter ac:name="fieldLabel">Event Title</ac:parameter>
      <ac:parameter ac:name="type">text</ac:parameter>
    </ac:structured-macro>
    <p>
      <ac:structured-macro ac:macro-id="05b0b595-9387-4ded-91ba-d43f796f7a8d" ac:name="confiorm-field-definition" ac:schema-version="1">
        <ac:parameter ac:name="fieldName">dt</ac:parameter>
        <ac:parameter ac:name="fieldLabel">When</ac:parameter>
        <ac:parameter ac:name="type">datetimeinterval</ac:parameter>
      </ac:structured-macro>
    </p>
    <p>
      <ac:structured-macro ac:macro-id="2d5c0d0b-ec16-4603-9182-b92b5c50645d" ac:name="confiorm-field-definition" ac:schema-version="1">
        <ac:parameter ac:name="fieldName">eventDescription</ac:parameter>
        <ac:parameter ac:name="fieldLabel">eventDescription</ac:parameter>
        <ac:parameter ac:name="type">textarea</ac:parameter>
      </ac:structured-macro>
      <ac:structured-macro ac:macro-id="abdba410-99ec-43a7-91e6-e324f22d3dc8" ac:name="confiorm-entry-register" ac:schema-version="1">
        <ac:parameter ac:name="atlassian-macro-output-type">INLINE</ac:parameter>
      </ac:structured-macro>
    </p>
  </ac:rich-text-body>
</ac:structured-macro>

```

```
<p> </p>
</ac:rich-text-body>
</ac:structured-macro>
<ac:structured-macro ac:macro-id="15a29681-2b71-47db-8072-e3ee5753c678" ac:name="confiform-field-
definition-rules" ac:schema-version="1">
  <ac:parameter ac:name="condition">id</ac:parameter>
  <ac:parameter ac:name="fieldName">fileAttach</ac:parameter>
  <ac:parameter ac:name="action">Hide field</ac:parameter>
</ac:structured-macro>
</p>
<ac:structured-macro ac:macro-id="e8bf9a9c-42ff-4e33-a7be-ffd71c935468" ac:name="confiform-ifttt" ac:schema-
version="1">
  <ac:parameter ac:name="action">Create Attachment</ac:parameter>
  <ac:parameter ac:name="extras">[entry.eventFileName]_[entry.created].ics</ac:parameter>
  <ac:parameter ac:name="event">onCreated</ac:parameter>
  <ac:parameter ac:name="title">fileAttach</ac:parameter>
  <ac:parameter ac:name="who">f:5341819</ac:parameter>
  <ac:rich-text-body>
    <ac:structured-macro ac:macro-id="bb96433d-e837-45ad-9b1a-77e396396d07" ac:name="noformat" ac:schema-
version="1">
      <ac:plain-text-body><![CDATA[BEGIN:VCALENDAR
VERSION:2.0
PRODID:-//hacksw/handcal//NONSGML v1.0//EN
BEGIN:VEVENT
UID:[user.email]
DTSTAMP:[entry.dt.startDate.formatDate(yyyyMMdd'T'HHmmssZ)]
ORGANIZER;CN=[user.fullName]:MAILTO:[user.email]
DTSTART:[entry.dt.startDate.formatDate(yyyyMMdd'T'HHmmssZ)]
DTEND:[entry.dt.endDate.formatDate(yyyyMMdd'T'HHmmssZ)]
SUMMARY:[entry.eventTitle]
DESCRIPTION: [entry.eventDescription]
END:VEVENT
END:VCALENDAR]]></ac:plain-text-body>
    </ac:structured-macro>
  </ac:rich-text-body>
</ac:structured-macro>
<ac:structured-macro ac:macro-id="45478de4-53cd-4326-a4c3-827d88176c45" ac:name="confiform-ifttt" ac:schema-
version="1">
  <ac:parameter ac:name="action">Send Email</ac:parameter>
  <ac:parameter ac:name="event">onCreated</ac:parameter>
  <ac:parameter ac:name="title">testing ics</ac:parameter>
  <ac:parameter ac:name="who">sasha@vertuna.com</ac:parameter>
  <ac:rich-text-body>
    <p>Hello, an ics attached</p>
    <p>
      <ac:structured-macro ac:macro-id="2da66e36-78e5-402e-adb9-6e9b76901ab5" ac:name="confiform-field" ac:
schema-version="1">
        <ac:parameter ac:name="fieldName">fileAttach</ac:parameter>
      </ac:structured-macro>
    </p>
  </ac:rich-text-body>
</ac:structured-macro>
<p> </p>
<p> </p>
<p> </p>
</ac:rich-text-body>
</ac:structured-macro>
```